

FIG. 1A

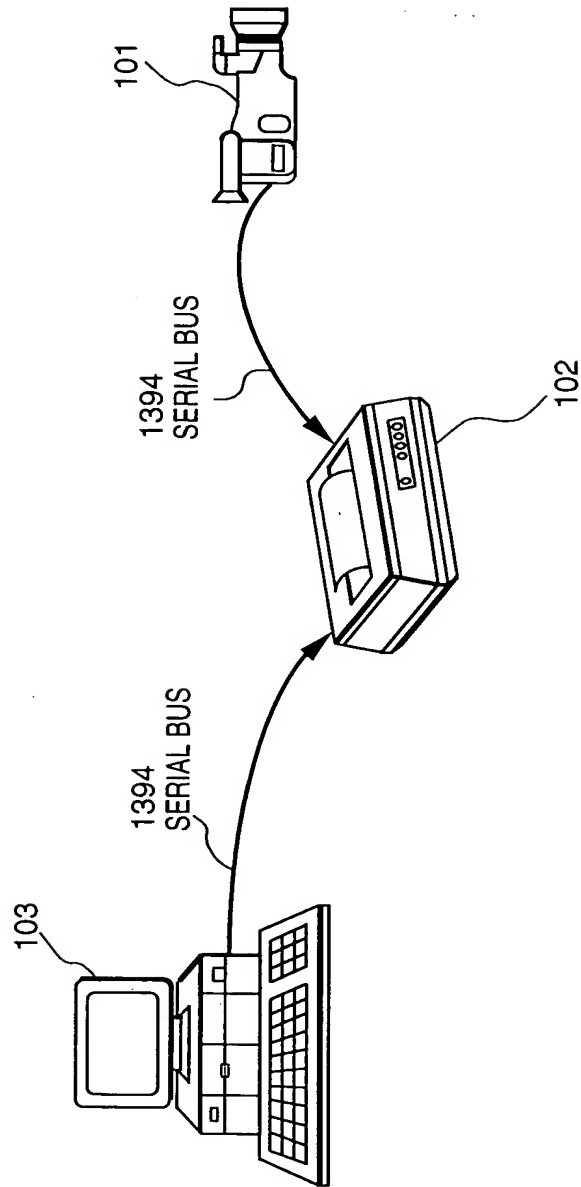


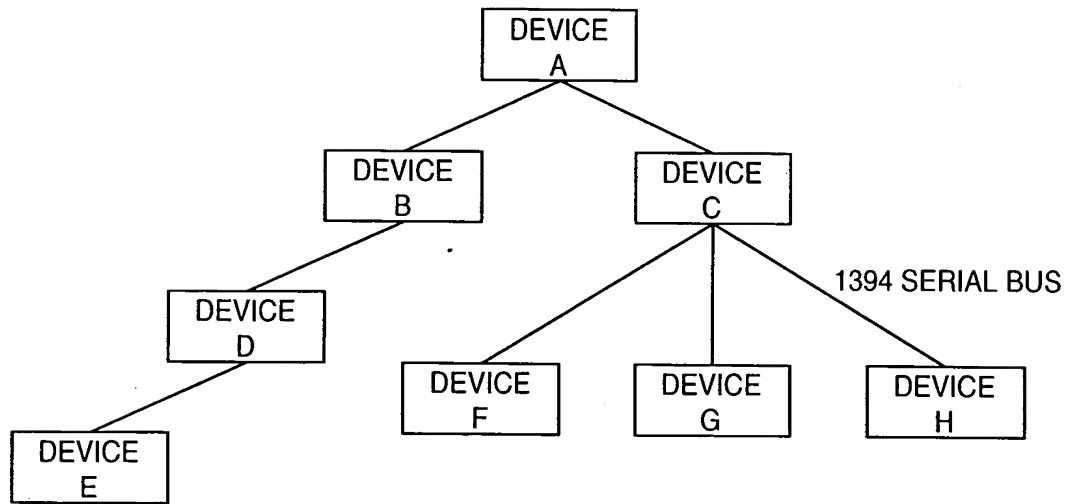
FIG. 1B

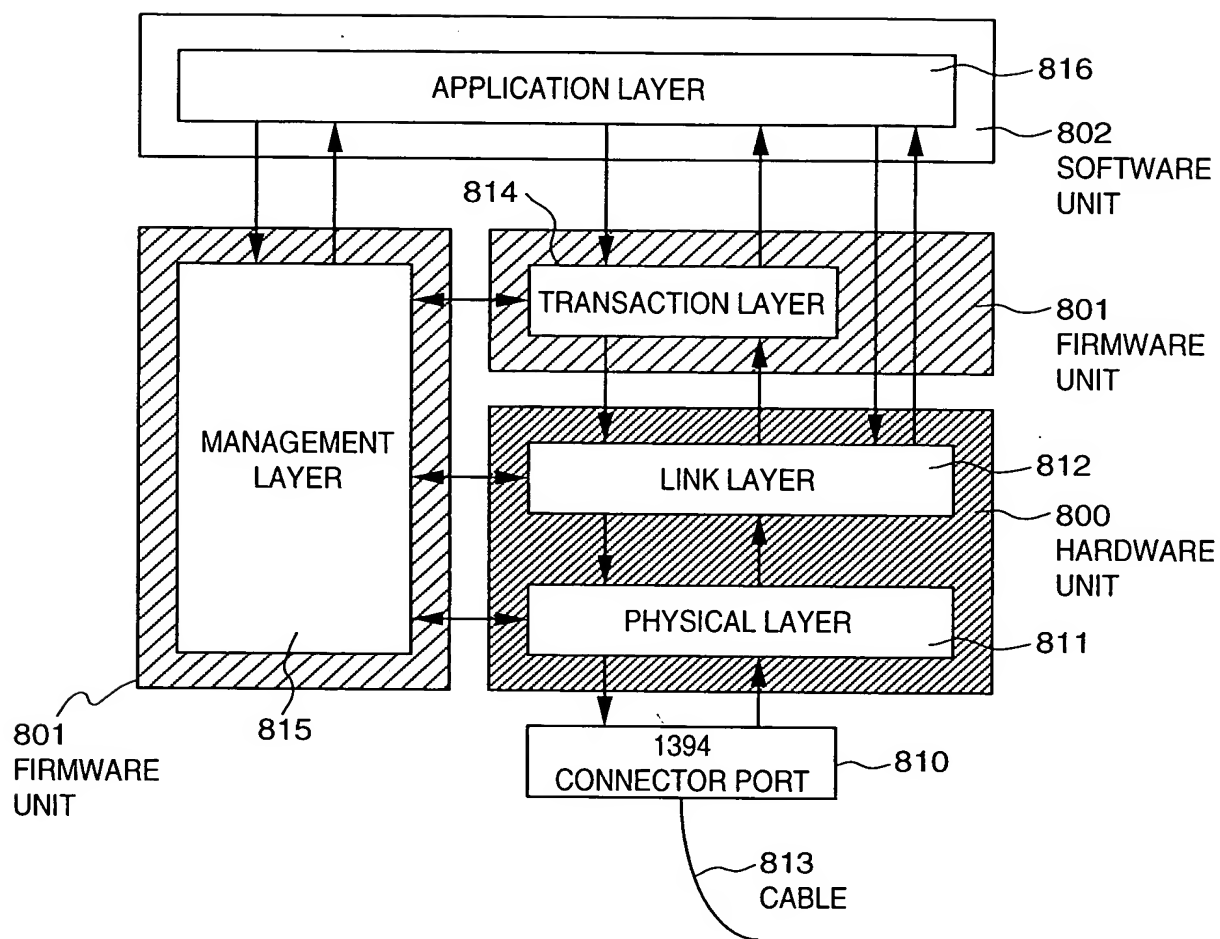
FIG. 2

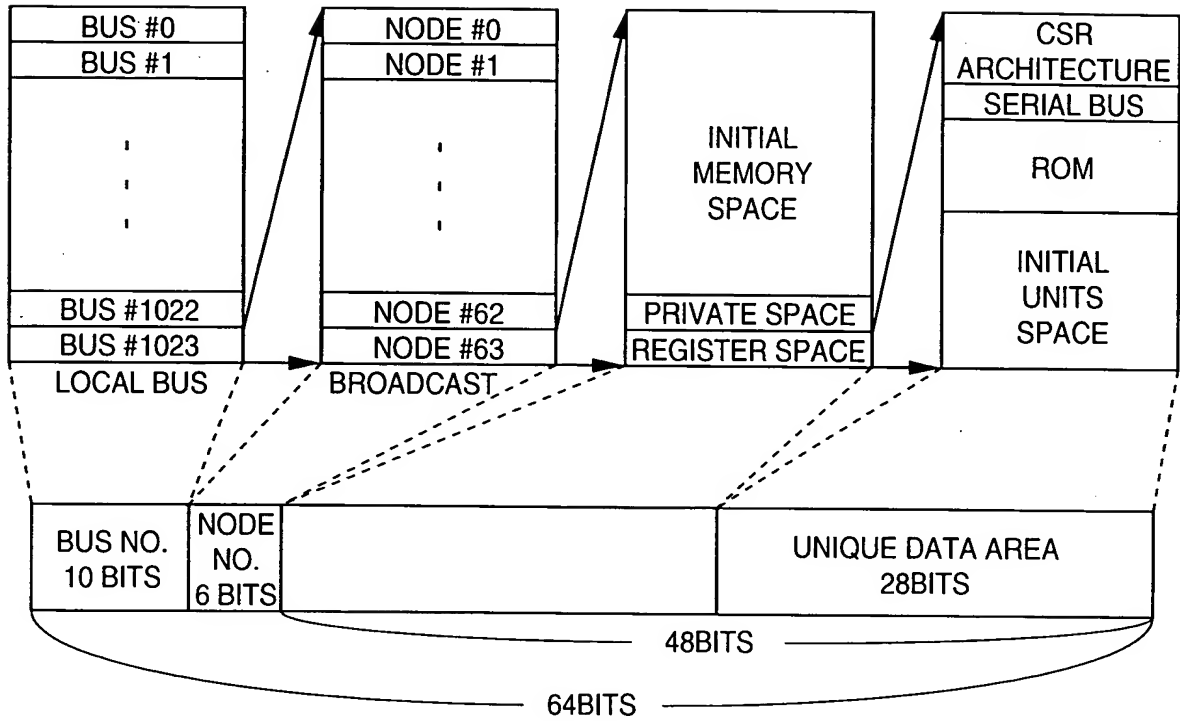
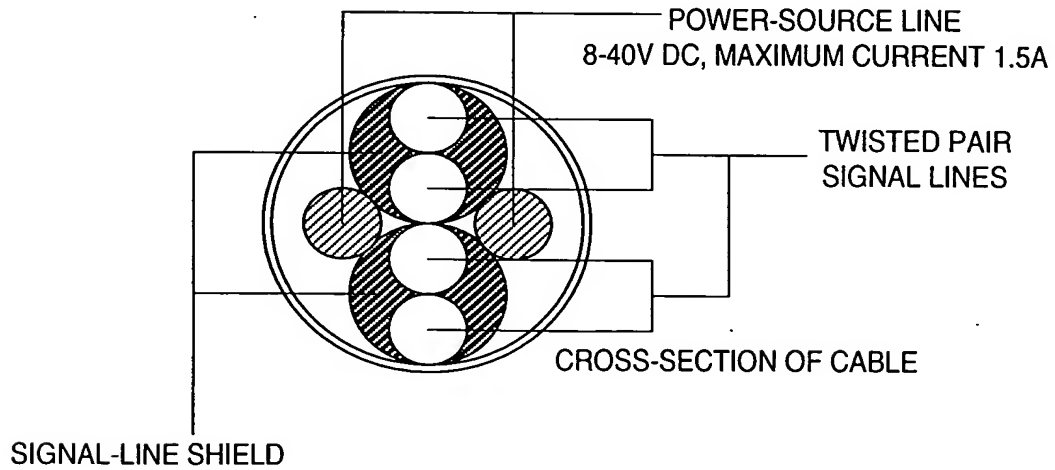
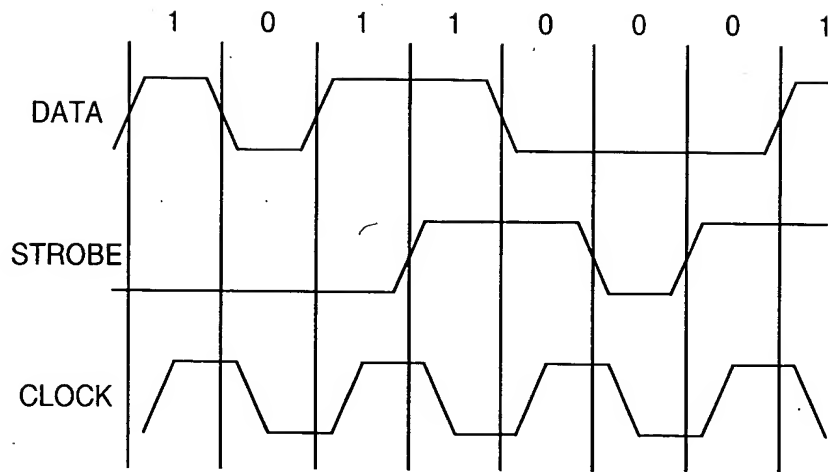
FIG. 3**FIG. 4**

FIG. 5

CLOCK : EXCLUSIVE-OR SIGNAL BETWEEN DATA AND STROBE

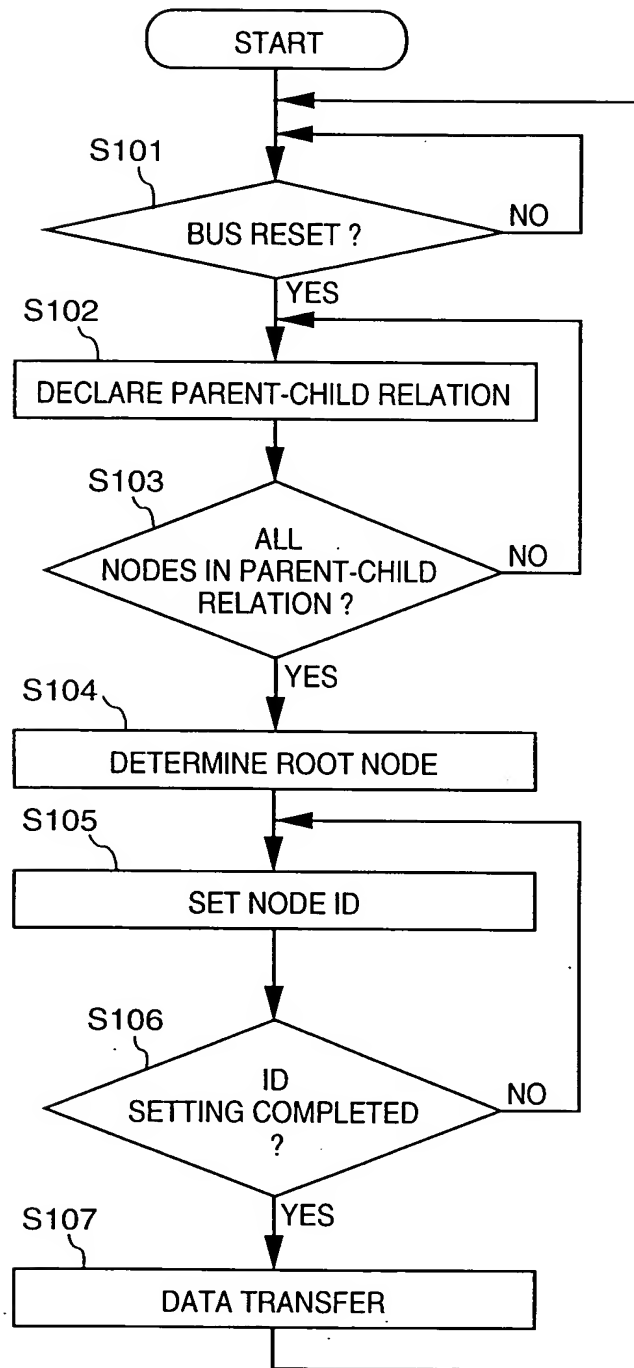
FIG. 6

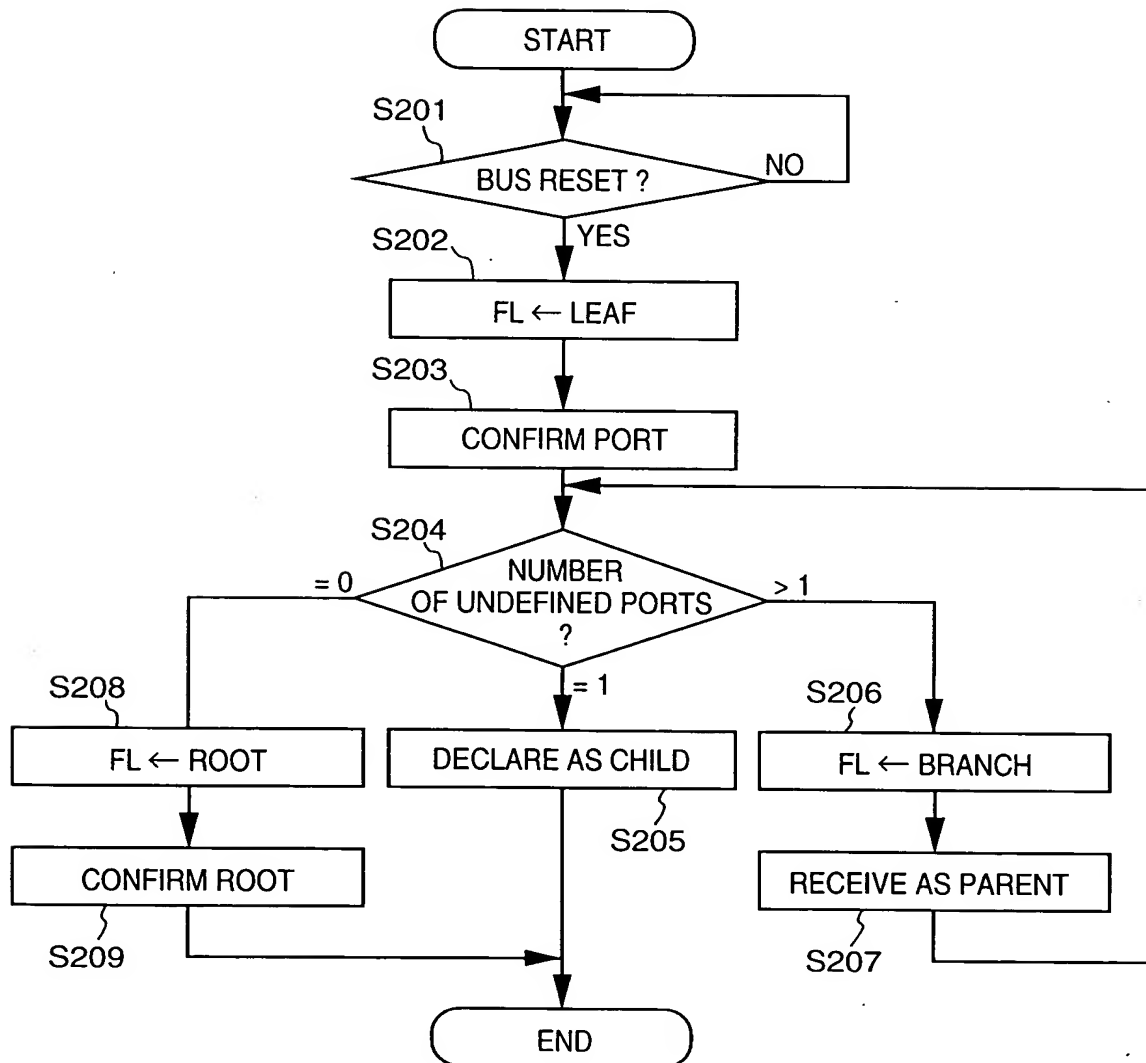
FIG. 7

FIG. 8

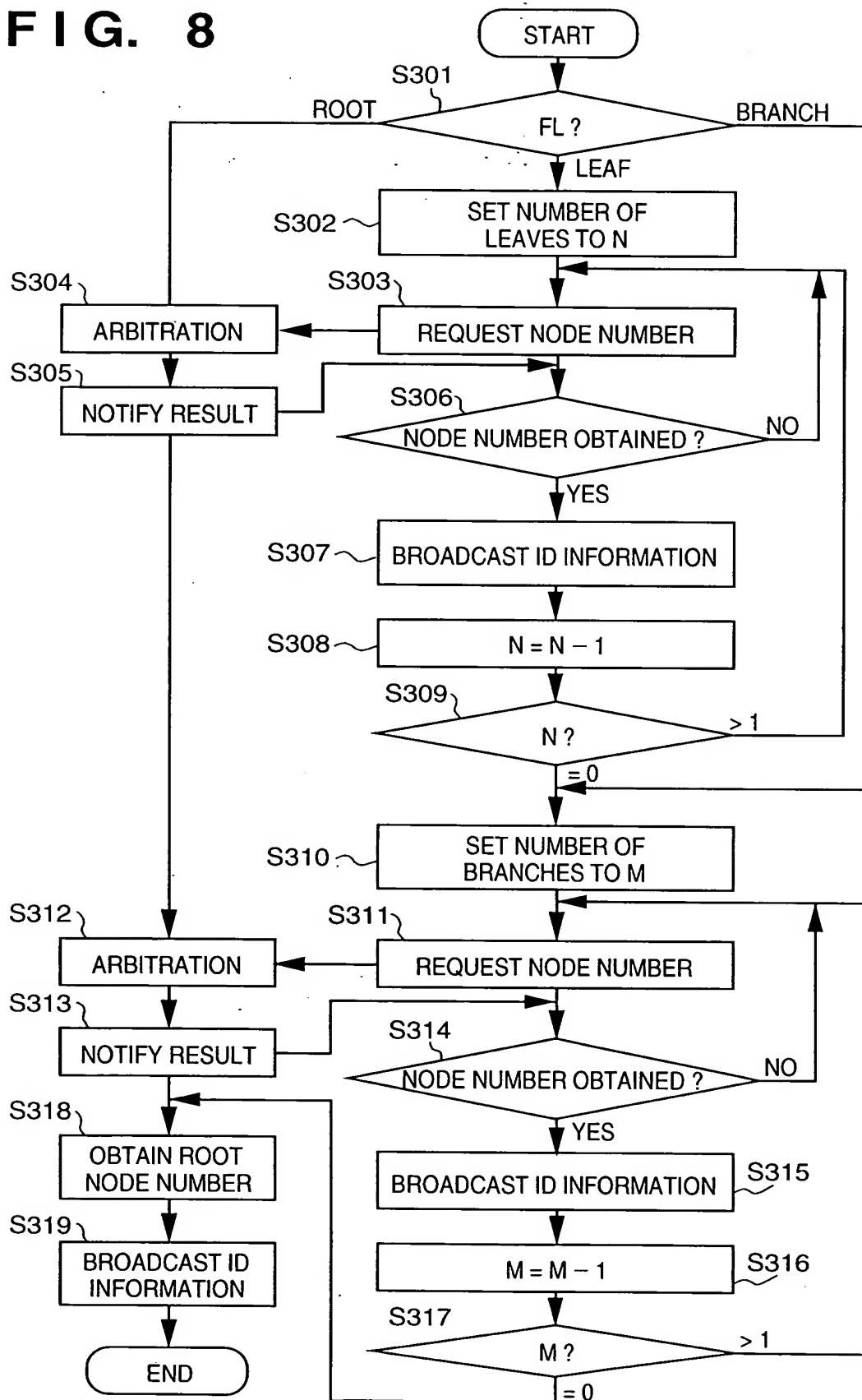
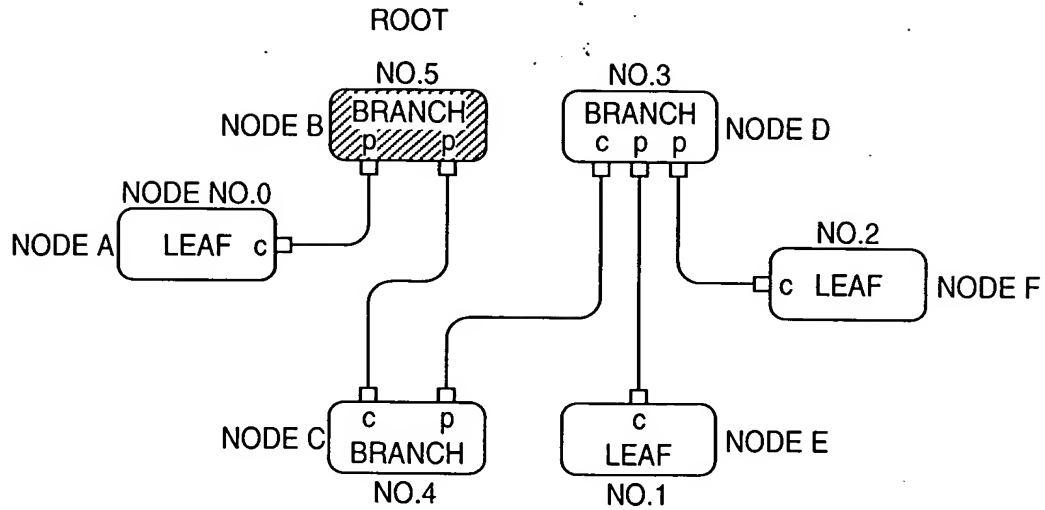


FIG. 9

BRANCH : NODE WITH TWO OR MORE NODE CONNECTIONS

LEAF : NODE WITH SINGLE PORT CONNECTION

□ : PORT

c : PORT CORRESPONDING TO CHILD NODE

p : PORT CORRESPONDING TO PARENT NODE

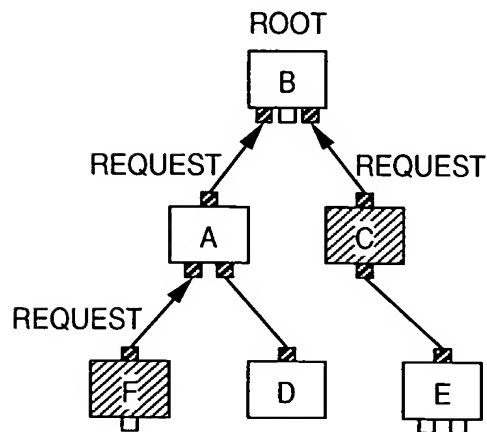
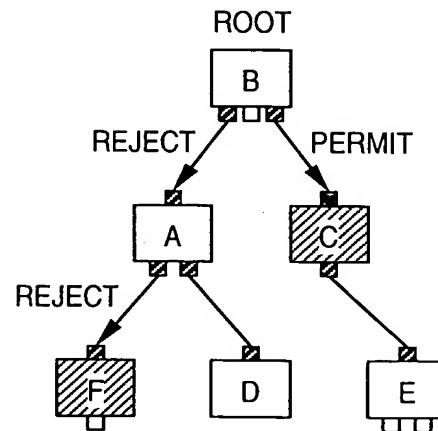
FIG. 10A**FIG. 10B**

FIG. 11

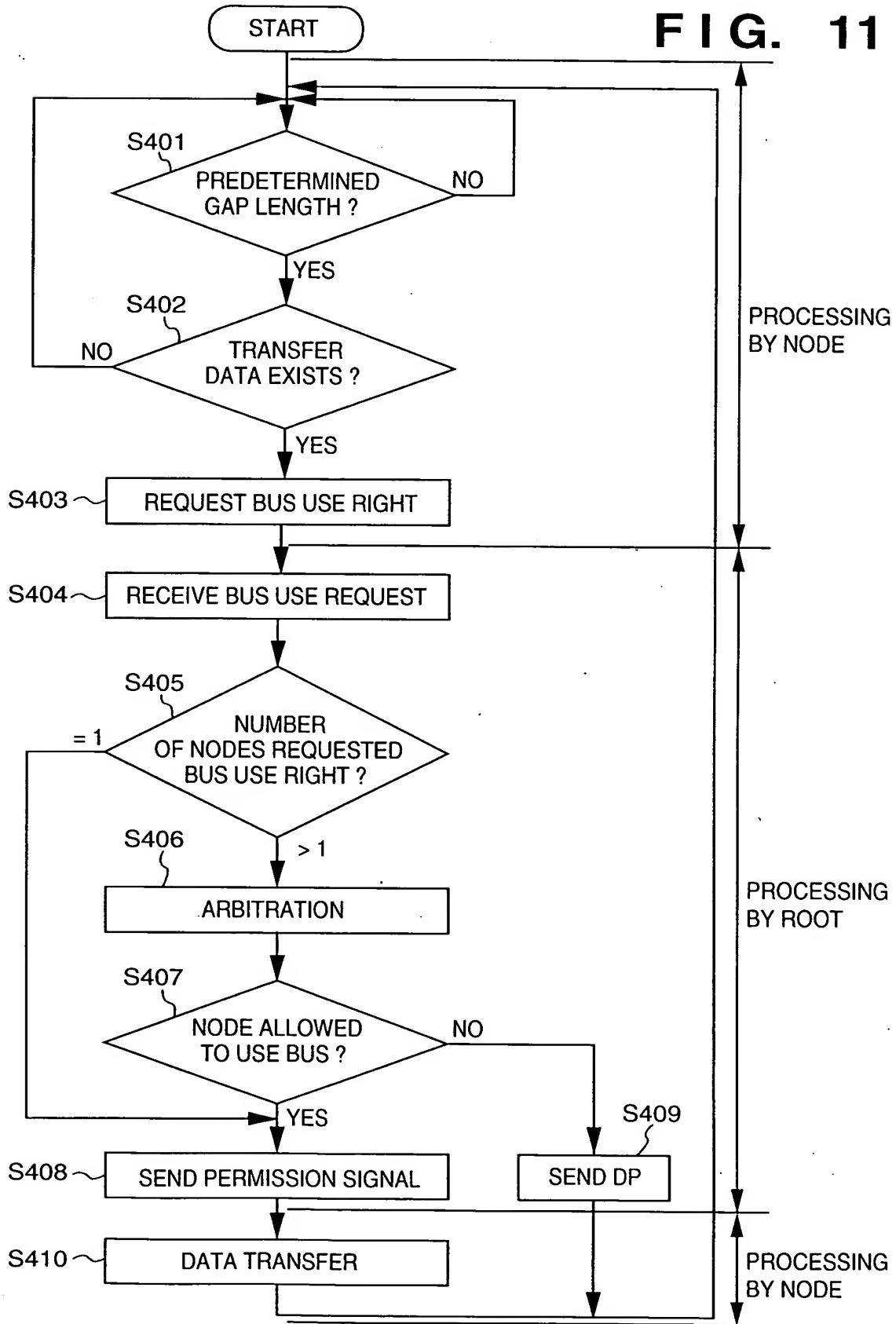


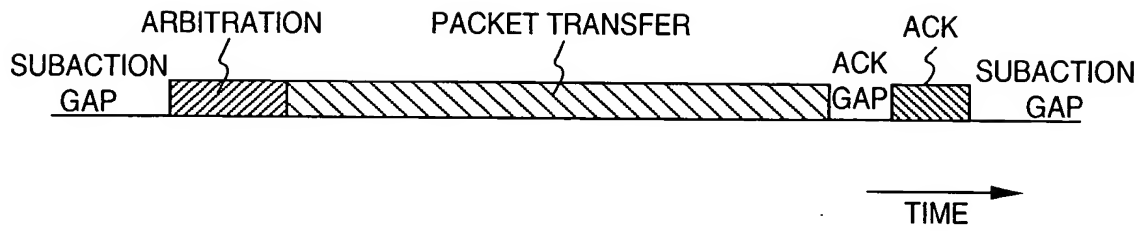
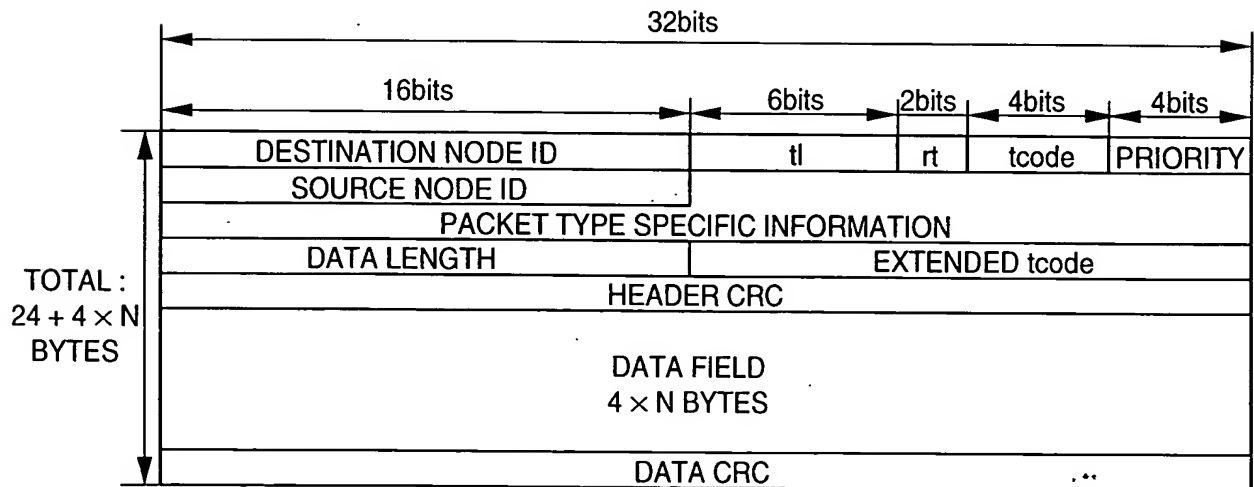
FIG. 12**FIG. 13**

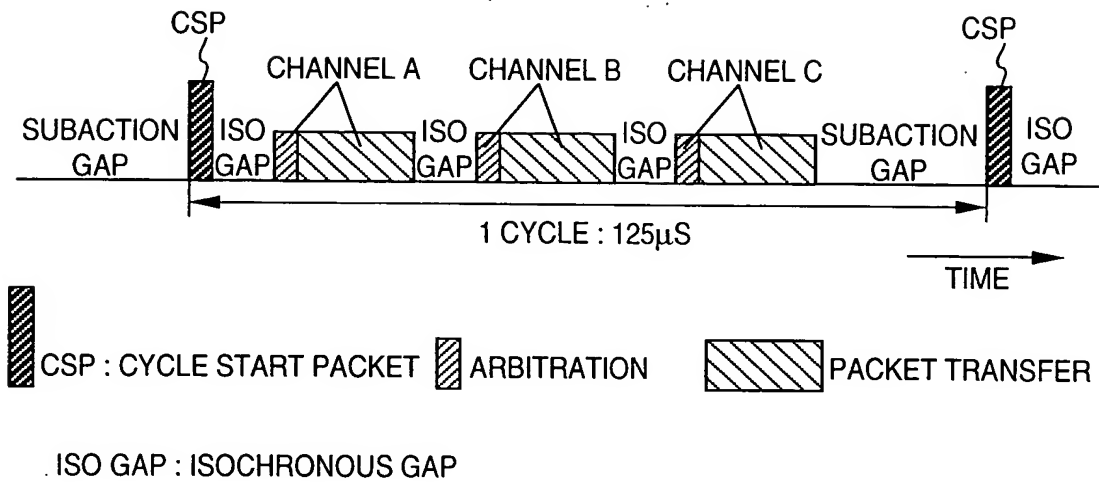
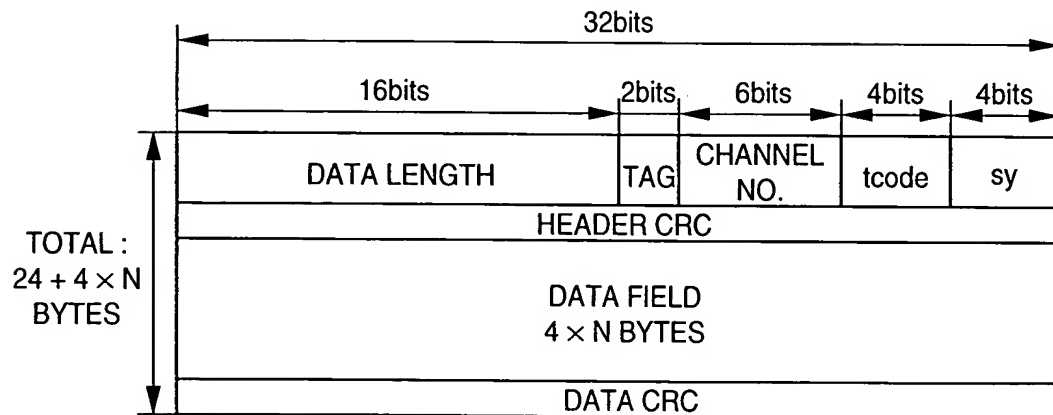
FIG. 14**FIG. 15A**

FIG. 15B

ABBREVIATION	NAME	CONTENT
destination_ID	destination identifier	ID OF DESTINATION NODE (ASYNCHRONOUS ONLY)
t1	transaction label	LABEL INDICATING A SERIES OF TRANSACTIONS (ASYNCHRONOUS ONLY)
rt	retry code	CODE INDICATING RETRANSMISSION STATUS (ASYNCHRONOUS ONLY)
tcode	transaction code	CODE INDICATING PACKET TYPE (ASYNCHRONOUS ONLY)
pri	priority	PRIORITY ORDER (ASYNCHRONOUS ONLY)
source_ID	source identifier	SOURCE NODE (ASYNCHRONOUS ONLY)
destination_ offset	destination memory address	MEMORY ADDRESS OF DESTINATION NODE (ASYNCHRONOUS ONLY)
rcode	response code	RESPONSE STATUS (ASYNCHRONOUS ONLY)
quadiet_data	quadiet(4bytes) data	4-BYTE LENGTH DATA (ASYNCHRONOUS ONLY)
data_length	length of data	LENGTH OF data_field (EXCEPT pad bytes)
extended_tcode	extended transaction code	EXTENDED TRANSACTION CODE (ASYNCHRONOUS ONLY)
chanel	isochronous identifier	IDENTIFICATION OF ISOCHRONOUS PACKET
sy	synchronization code	SYNCHRONIZATION OF VIDEO IMAGE AND AUDIO INFORMATION
cycle_time_data	contents of the CYCLE_TIME register	CYCLE TIMER REGISTER VALUE OF CYCLE MASTER NODE (CYCLE PACKET ONLY)
data_field	data + pad bytes	DATA STORAGE (ISOCHRONOUS AND ASYNCHRONOUS)
header_CRC	CRC for header field	CRC FOR HEADER
data_CRC	CRC for data field	CRC FOR DATA
tag	tag label	ISOCHRONOUS PACKET FORMAT

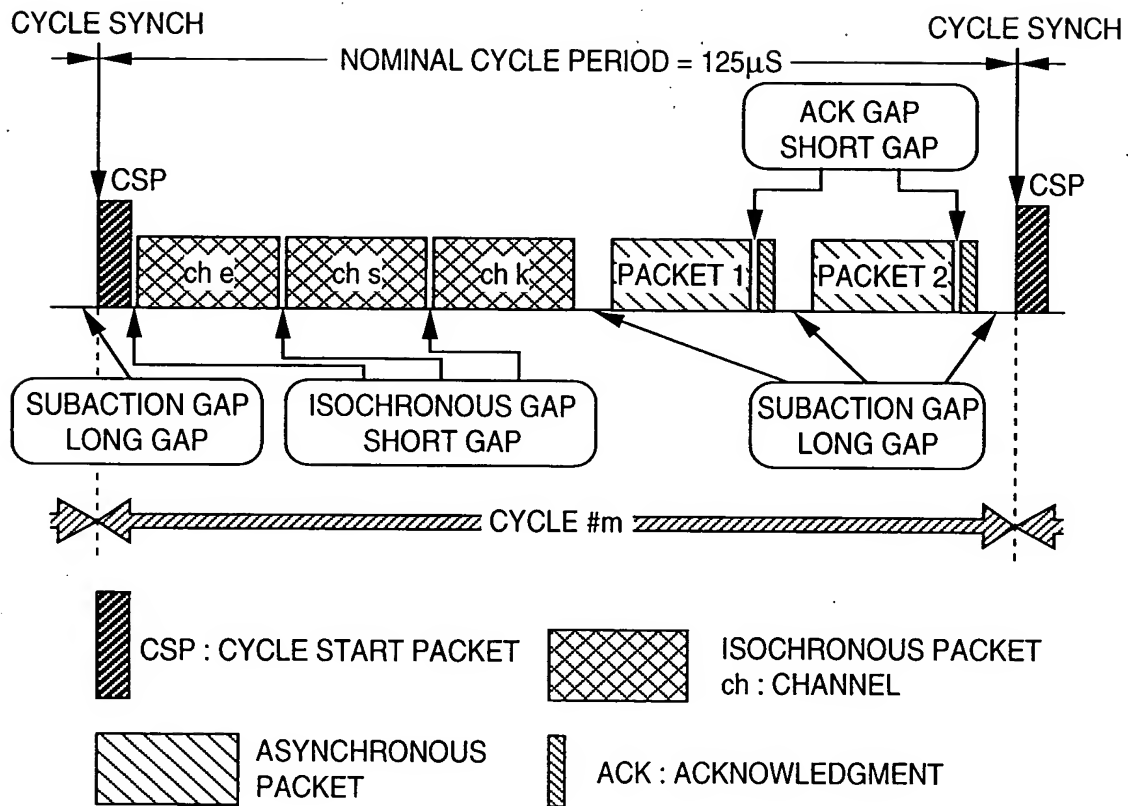
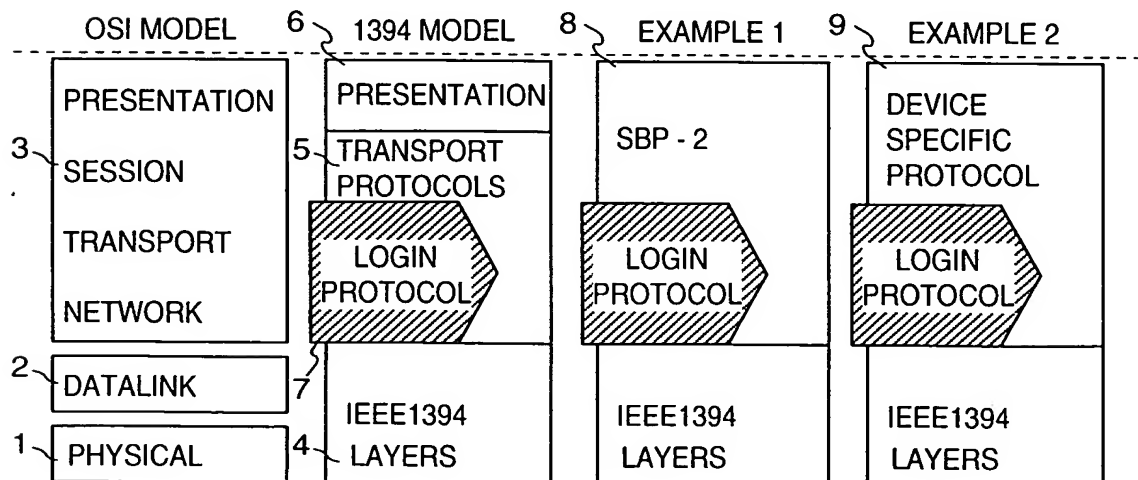
FIG. 16**FIG. 17**

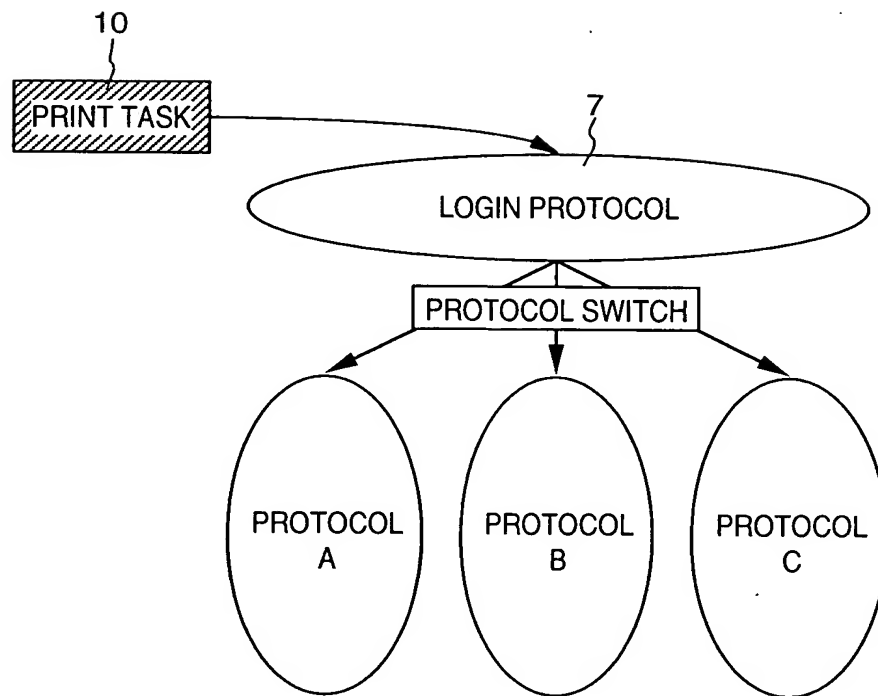
FIG. 18

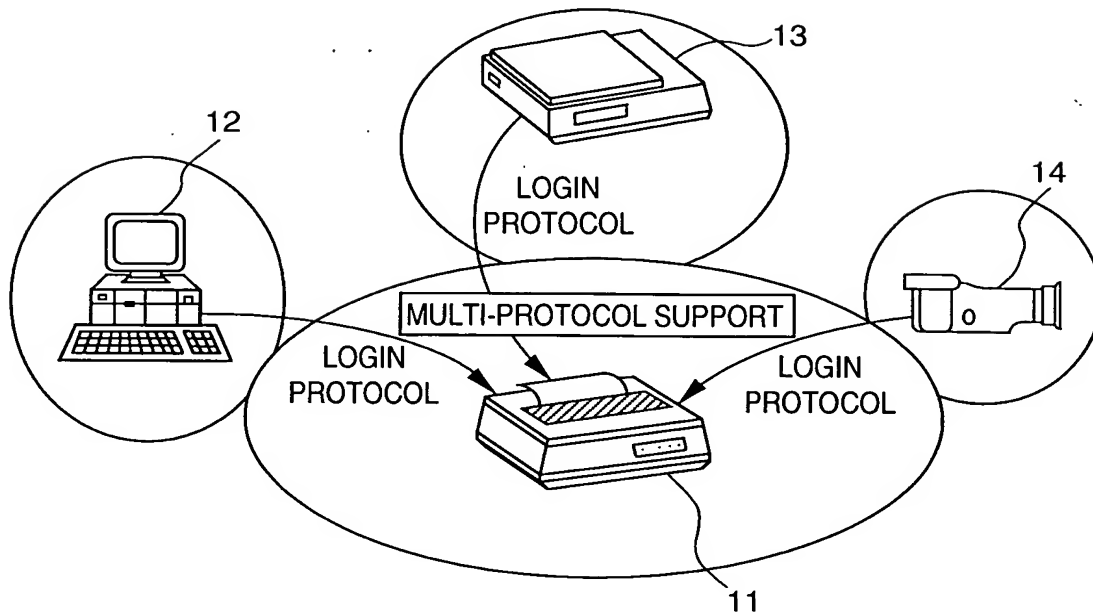
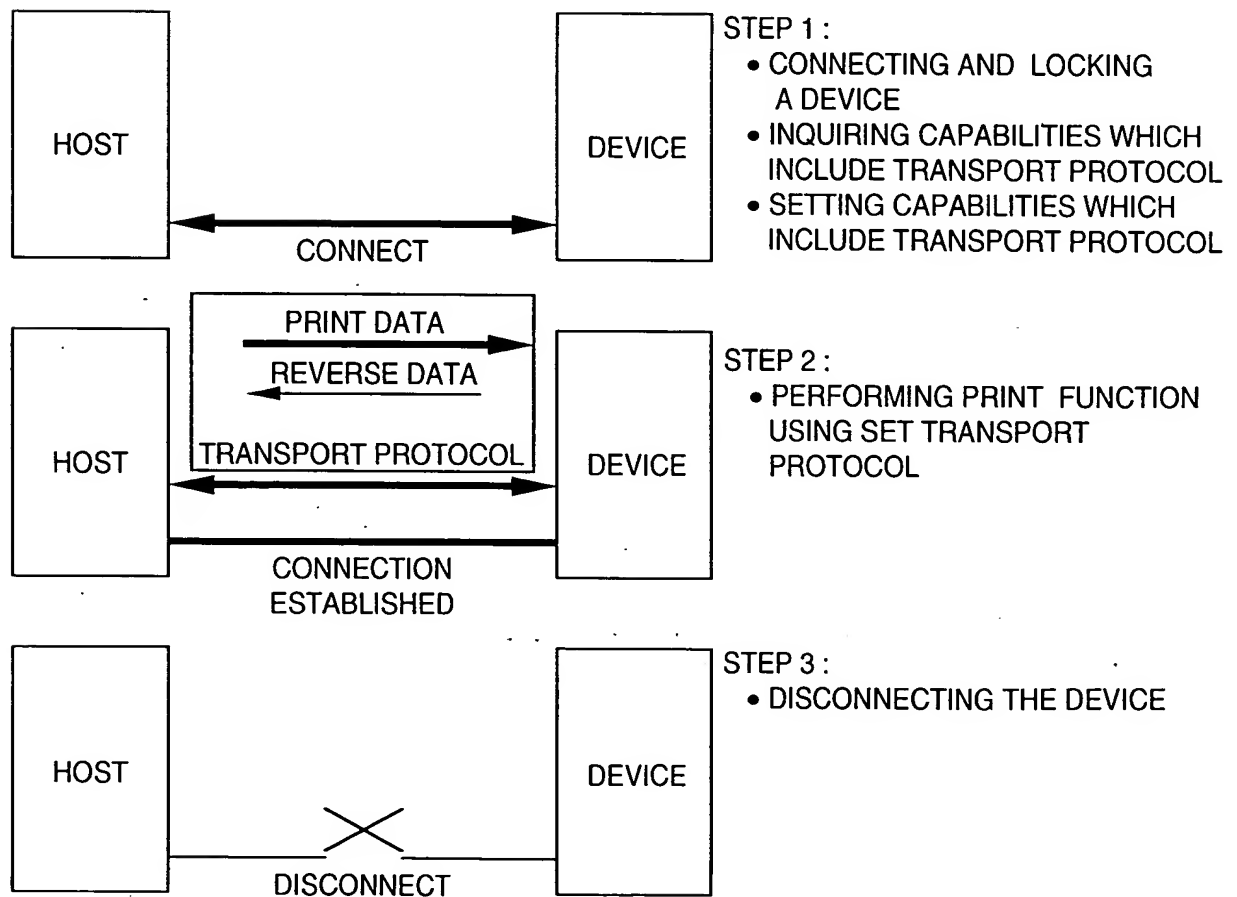
FIG. 19**FIG. 20**

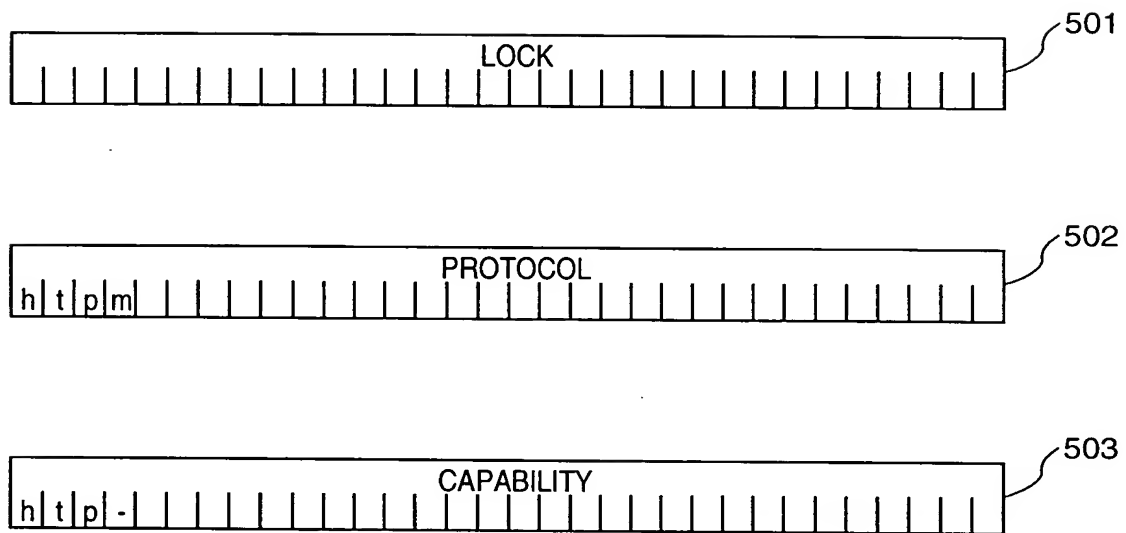
FIG. 21

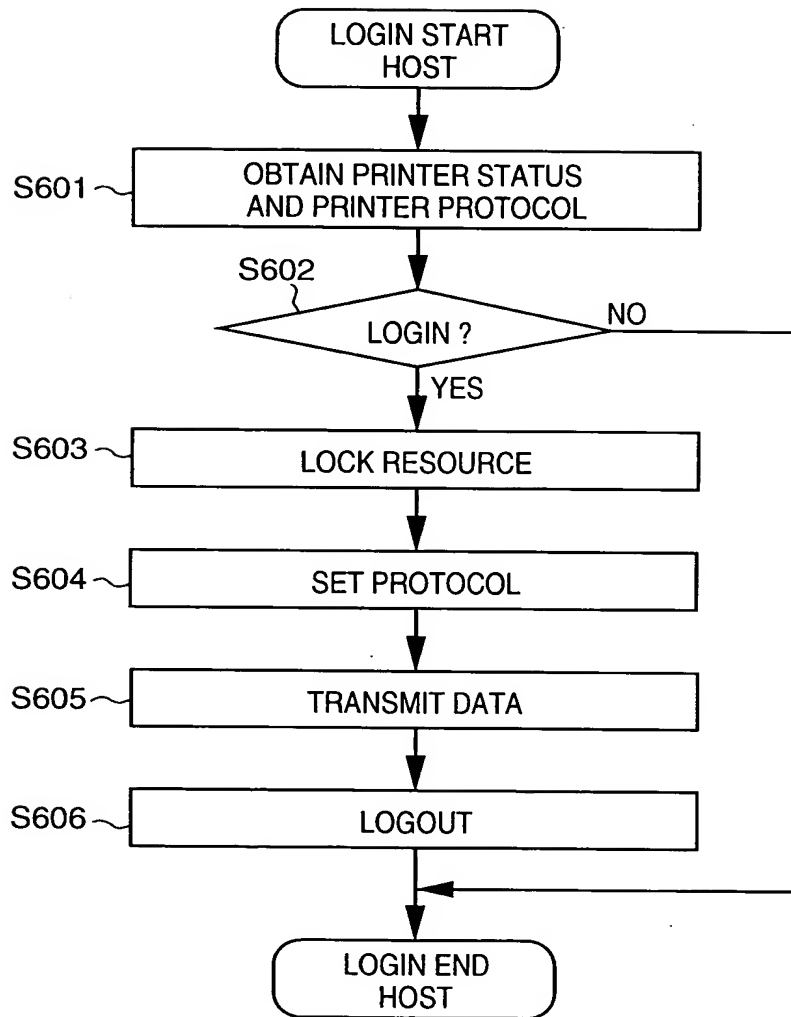
FIG. 22

FIG. 23

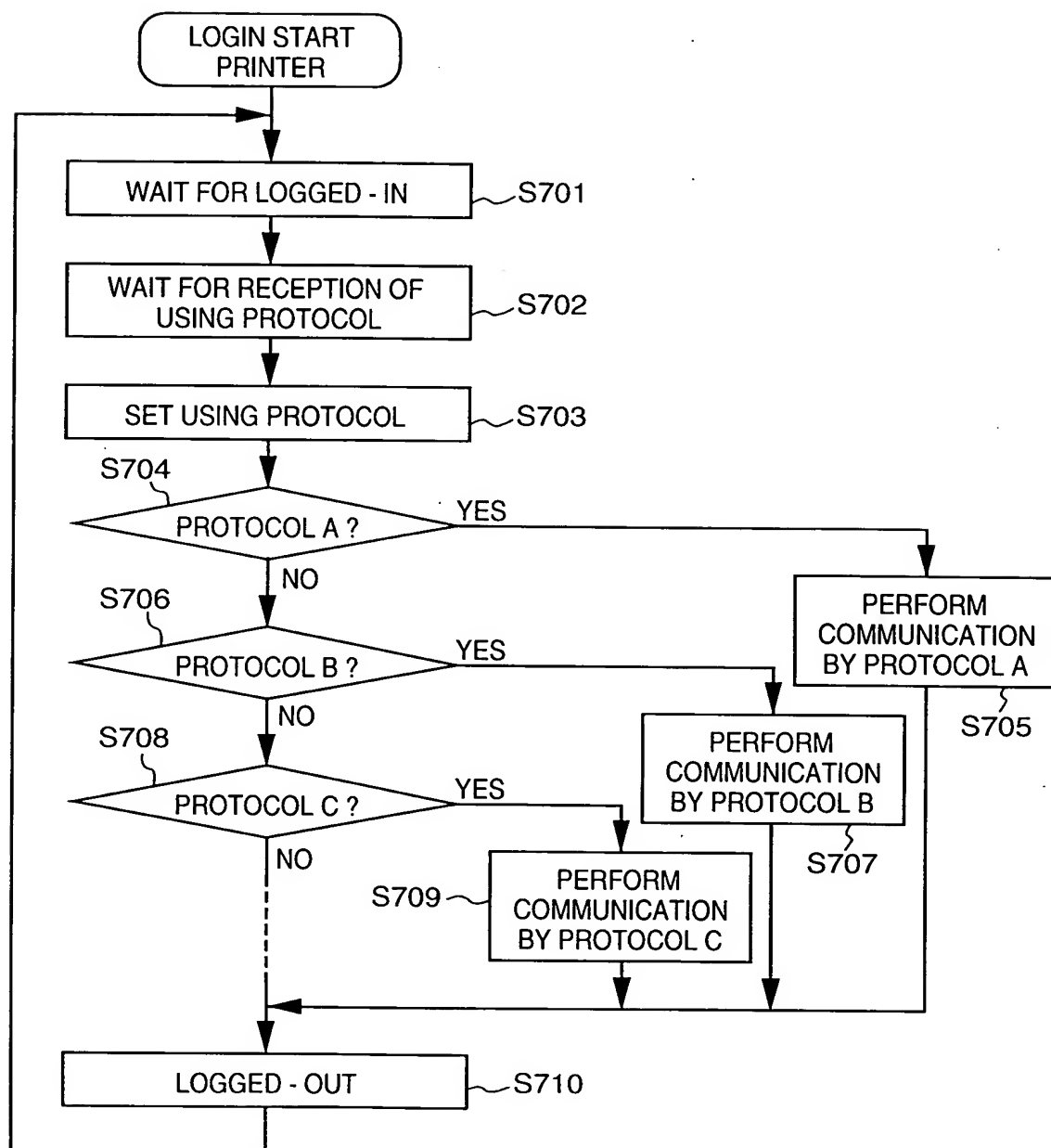


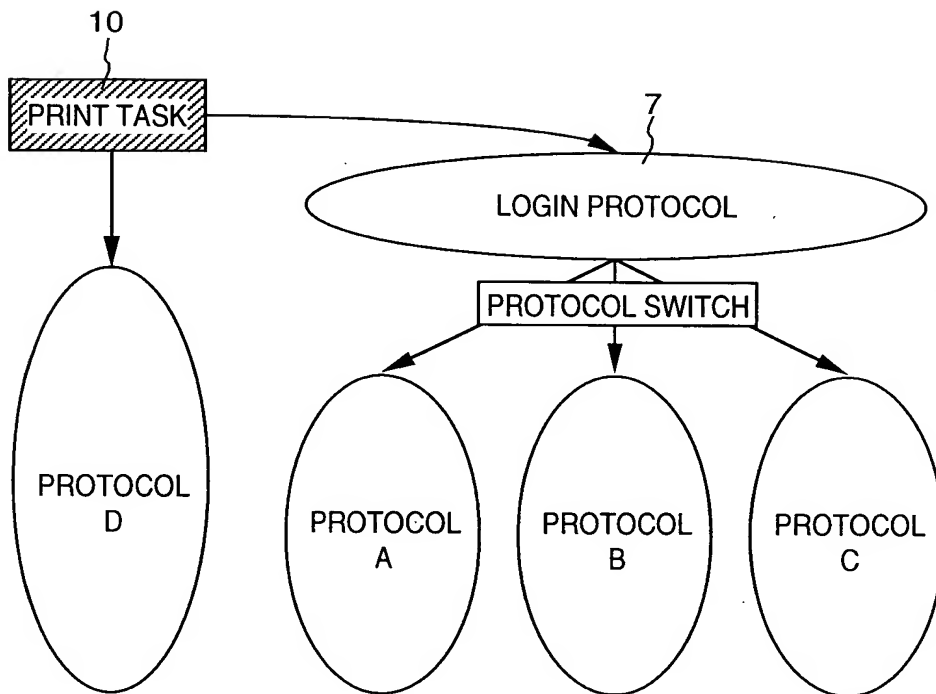
FIG. 24

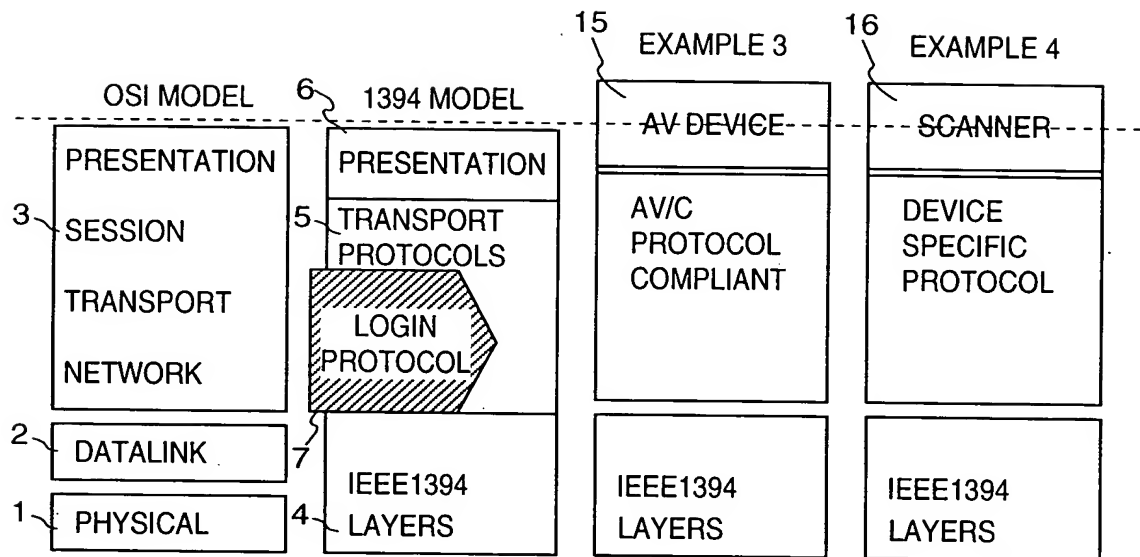
FIG. 25

FIG. 26A
CSR CORE REGISTER

OFFSET (hexadecimal)	REGISTER NAME	FUNCTION
000	STATE_CLEAR	INFORMATION ON STATUS AND CONTROL
004	STATE_SET	INFORMATION ON WRITE ENABLE/DISABLE STATUS OF STATE_CLEAR
008	NODE_IDS	BUS ID + NODE ID
00C	RESET_START	TO RESET BUS BY WRITING INTO THIS AREA
010~014	INDIRECT_ADDRESS, INDIRECT_DATA	REGISTER TO ACCESS ROM AREA GREATER THAN 1KB
018~01C	SPLIT_TIMEOUT	TIMER VALUE TO DETECT TIME-OUT OF SPLIT TRANSACTION
020~02C	ARGUMENT, TEST_START, TEST_STATUS	REGISTER FOR DIAGNOSIS
030~04C	UNITS_BASE, UNITS_BOUND, MEMORY_BASE, MEMORY_BOUND	NOT INSTALLED IN IEEE 1394
050~054	INTERRUPT_TARGET, INTERRUPT_MASK	REGISTER OF INTERRUPTION NOTIFICATION
058~07C	CLOCK_VALUE, CLOCK_TICK_PERIOD, CLOCK_STORBE_ARRIVED, CLOCK_INFO	NOT INSTALLED IN IEEE 1394
080~0FC	MESSAGE_REQUEST, MESSAGE_RESPONSE	REGISTER FOR MESSAGE NOTIFICATION
100~17C		RESERVATION
180~1FC	ERROR_LOG_BUFFER	TO RESERVE FOR IEEE 1394

FIG. 26B

SERIAL BUS REGISTER

OFFSET (hexadecimal)	REGISTER NAME	FUNCTION
200	CYCLE_TIME	COUNTER FOR ISOSYNCHRONOUS TRANSFER
204	BUS_TIME	REGISTER FOR TIME SYNCHRONIZATION
208	POWER_FAIL_IMMINENT	REGISTER RELATING TO POWER SUPPLY
20C	POWER_SOURCE	
210	BUSY_TIMEOUT	TO CONTROL RETRY IN TRANSACTION LAYER
214~218		RESERVATION
21C	BUS_MANAGER_ID	NODE ID OF BUS MANAGER
220	BANDWIDTH_AVAILABLE	TO MANAGE ISOSYNCHRONOUS TRANSFER BAND
224~228	CHANNELS_AVAILABLE	TO MANAGE CHANNEL NUMBER FOR ISOSYNCHRONOUS TRANSFER
22C	MAINT_CONTROL	REGISTER FOR DIAGNOSIS
230	MAINT_UTILITY	
234~3FC		RESERVATION

FIG. 26C
SERIAL-BUS NODE RESOURCE REGISTER

OFFSET (hexadecimal)	REGISTER NAME	FUNCTION
800~FFC		RESERVATION
1000~13FC	TOPOLOGY-MAP	INFORMATION ON SERIAL BUS STRUCTURE
1400~1FFC		RESERVATION
2000~2FFC	SPEED-MAP	INFORMATION ON TRANSFER SPEED OF SERIAL BUS
3000~FFFC		RESERVATION

FIG. 26D
MINIMUM FORMAT CONFIGURATION ROM

01	VENDOR ID
----	-----------

FIG. 26E

GENERAL FORMAT CONFIGURATION ROM

LENGTH OF bus_info_block	LENGTH OF ROM	CRC
bus_info_block (ASCII CODE OF 1394 BUS AND INFORMATION ON WHETHER OR NOT NODE HAS CAPABILITIES OF ISOCHRONOUS RESOURCE MANAGEMENT, CYCLE MASTER, AND BUS MANAGEMENT)		
root_directory (INDICATE VENDOR ID AND NODE FUNCTION)		
unit_directories (INDICATE UNIT TYPE AND DRIVER SOFT VERSION)		
root & unit_leaves		
vendor_dependent_information		

FIG. 27A

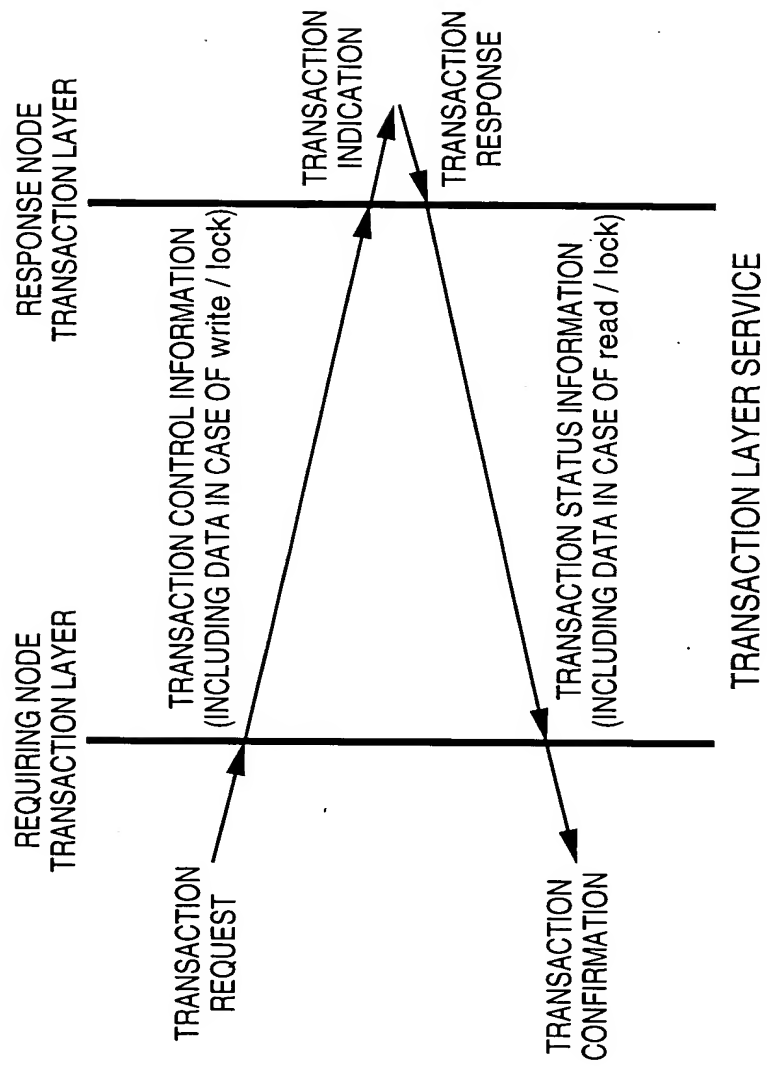


FIG. 27B

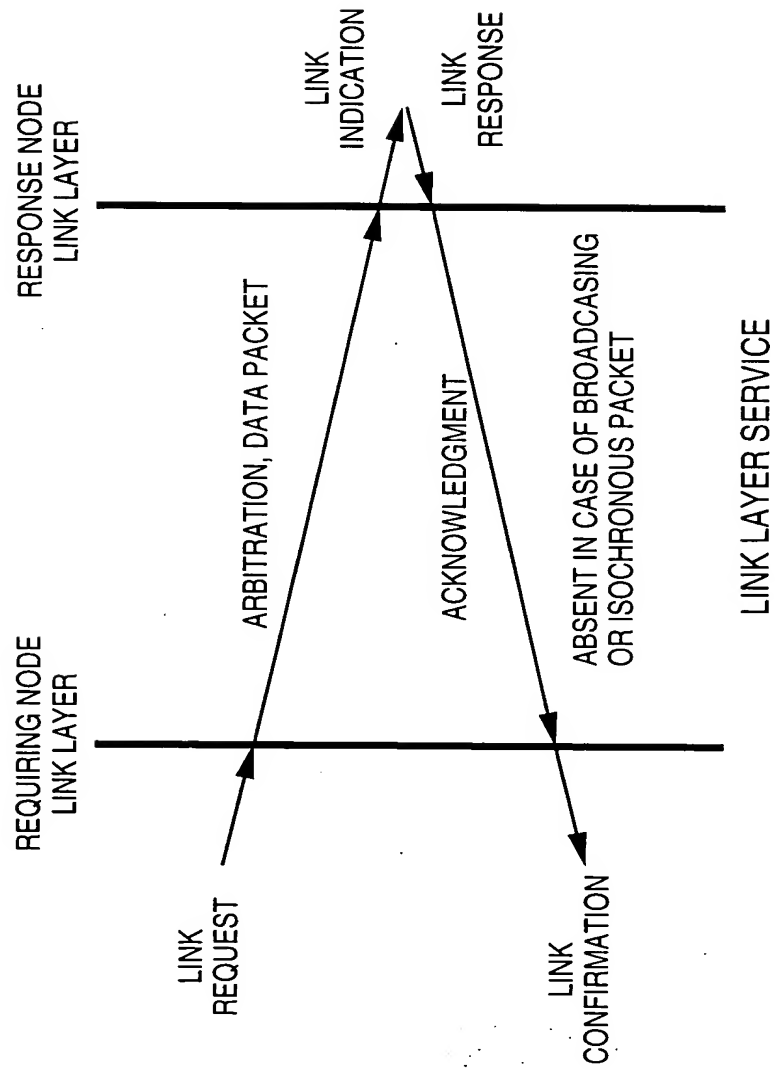


FIG. 28A

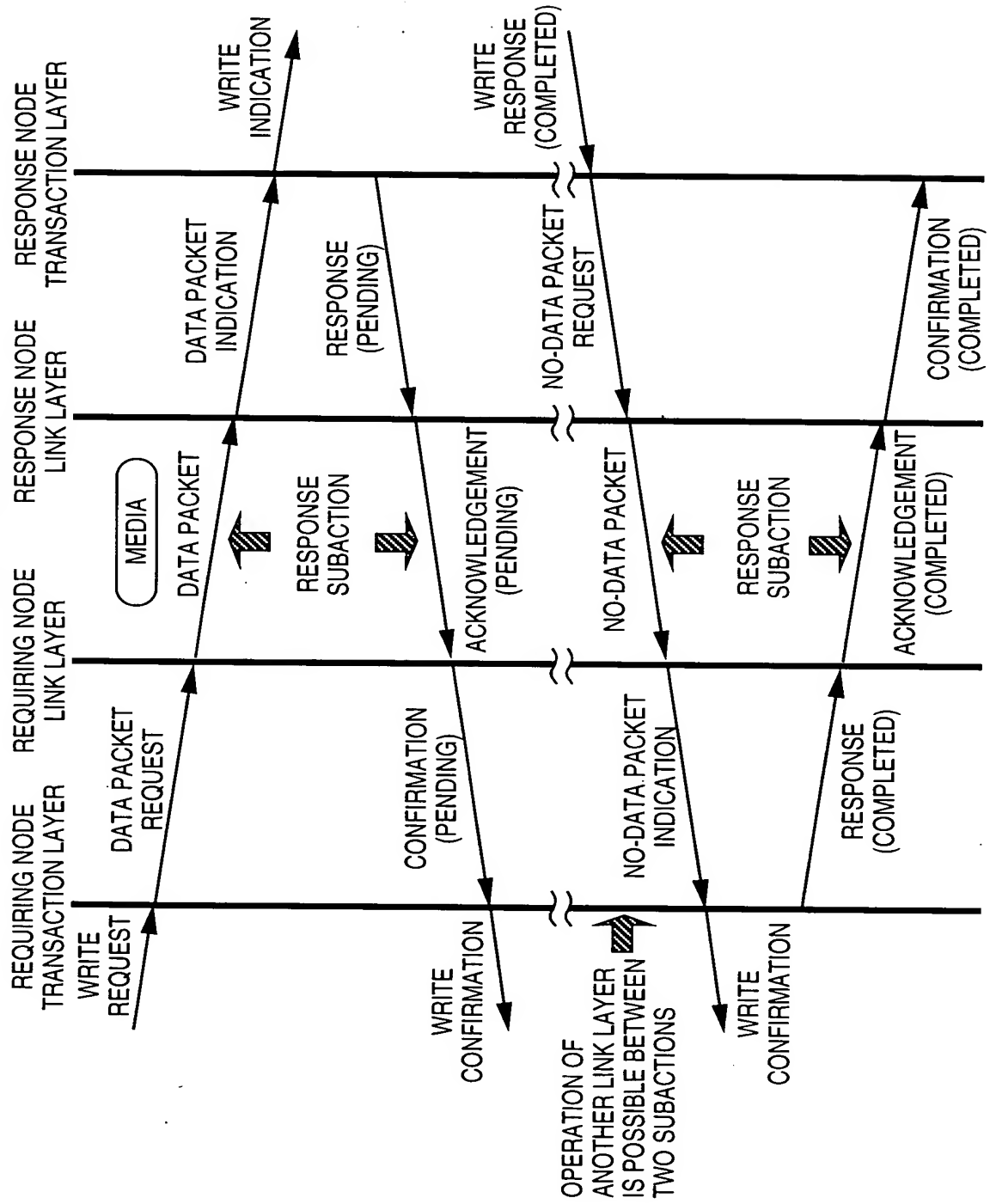


FIG. 28B

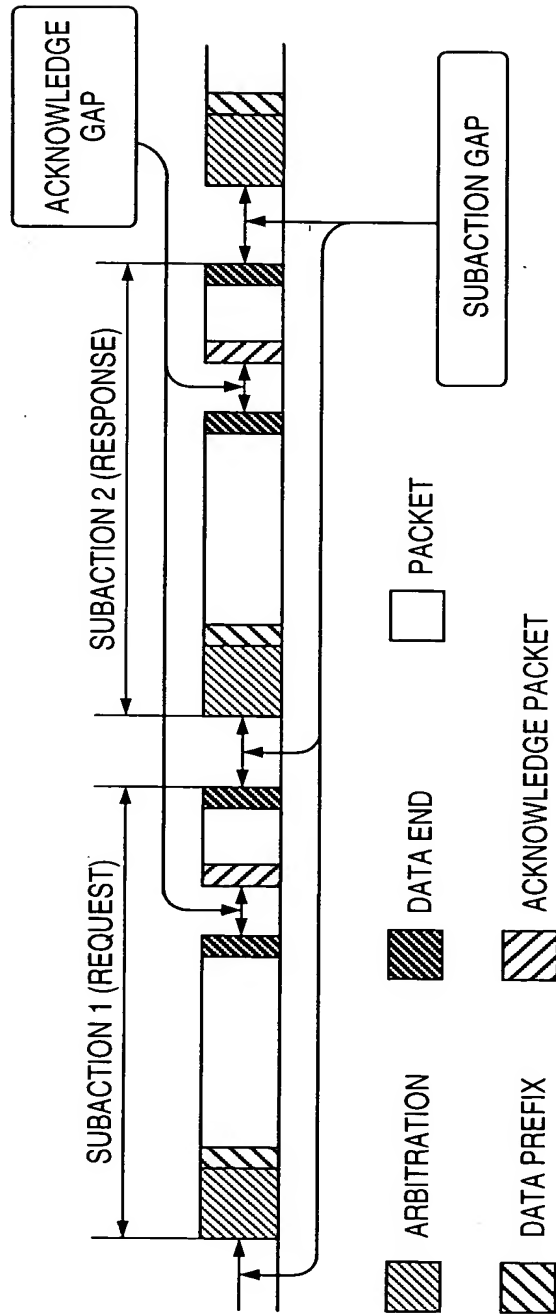


FIG. 29

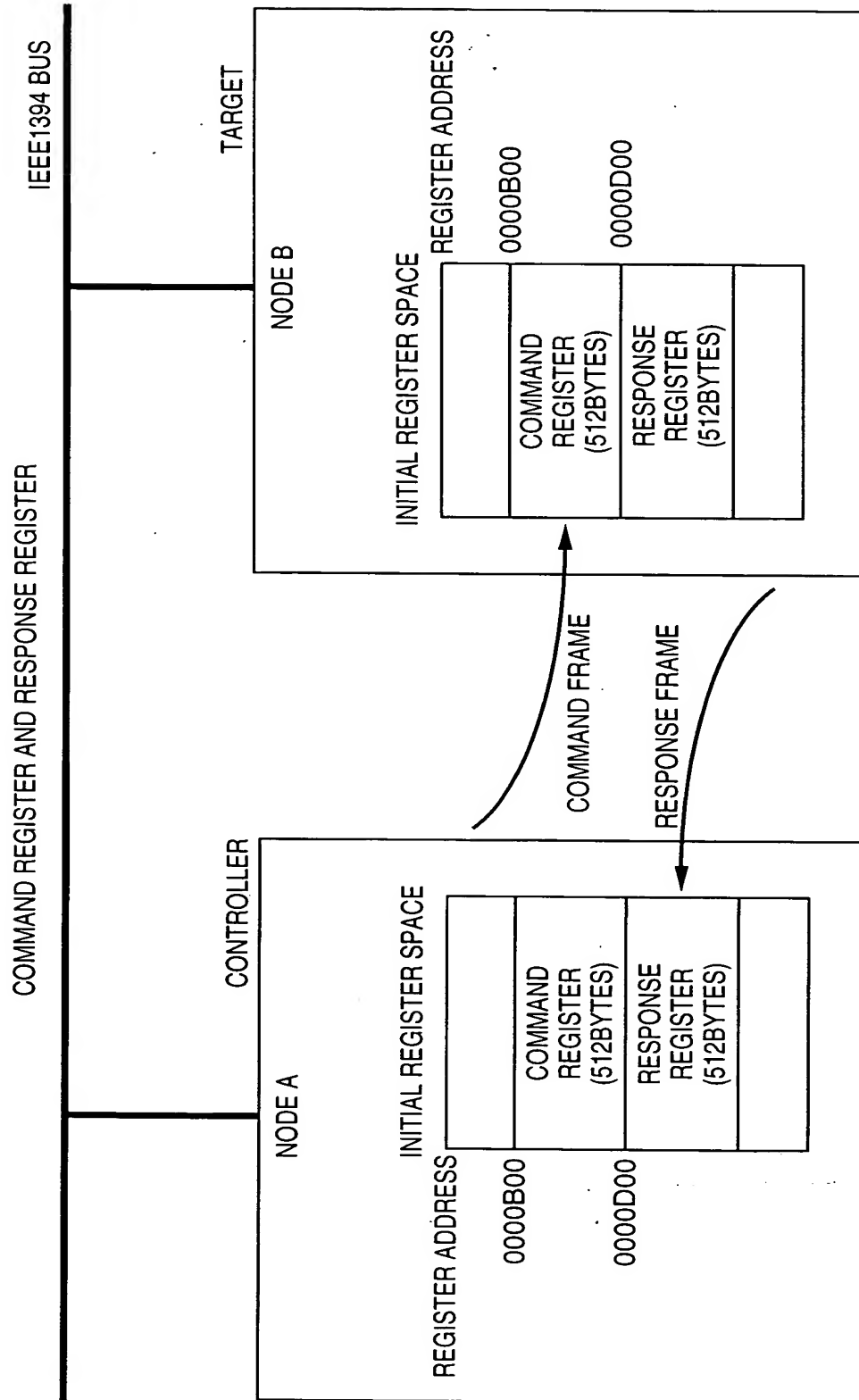


FIG. 30

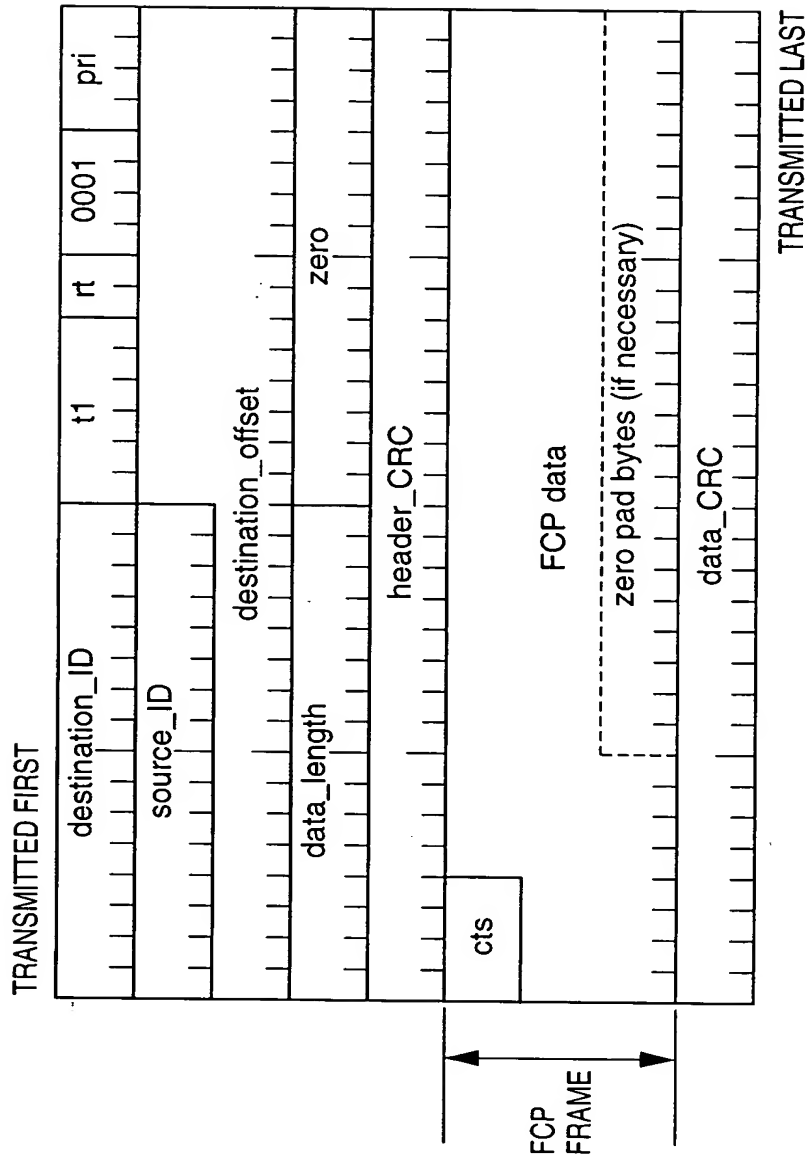


FIG. 31

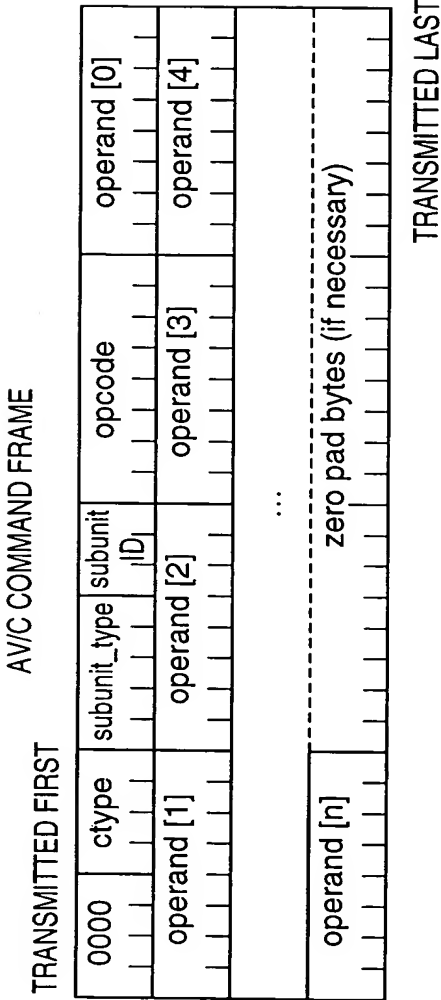


FIG. 32

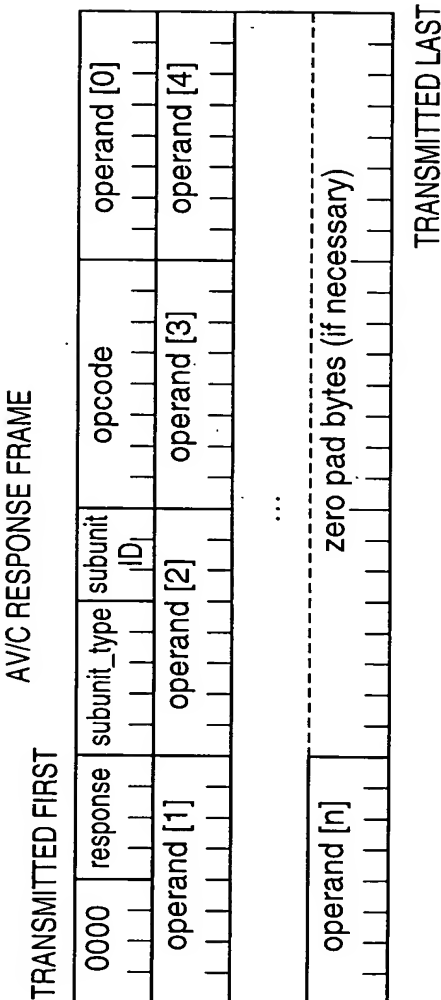


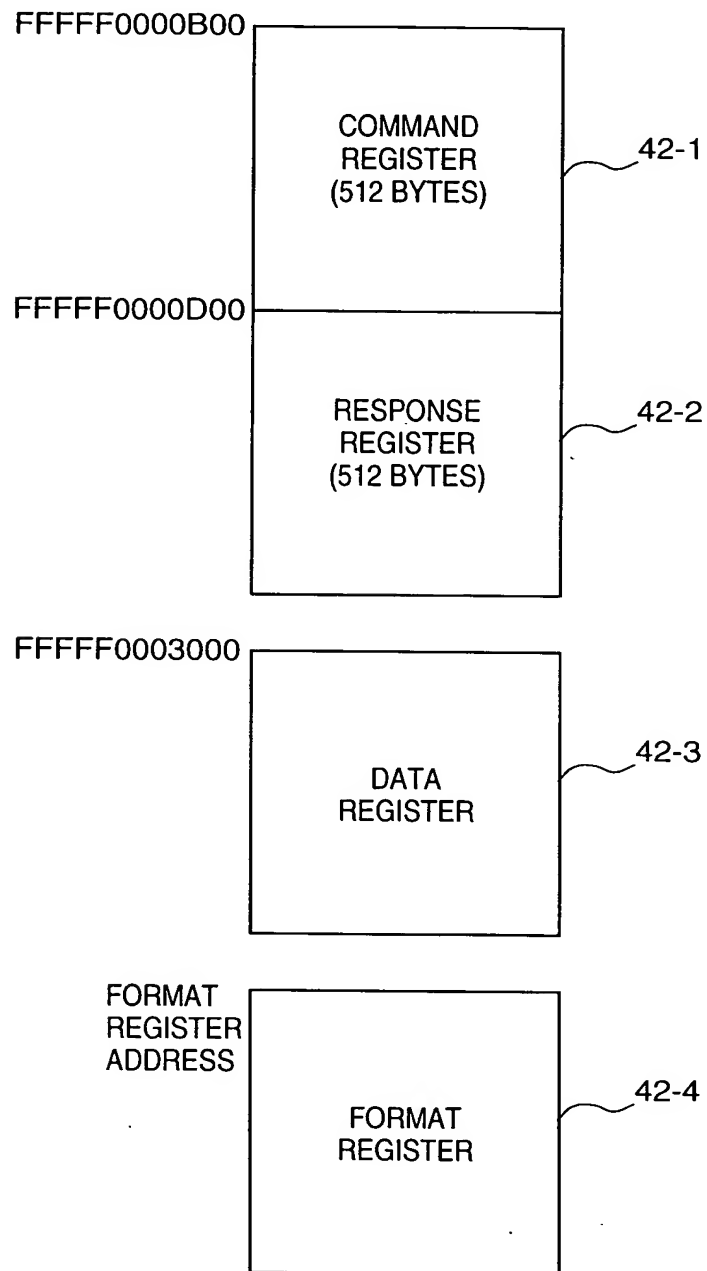
FIG. 33

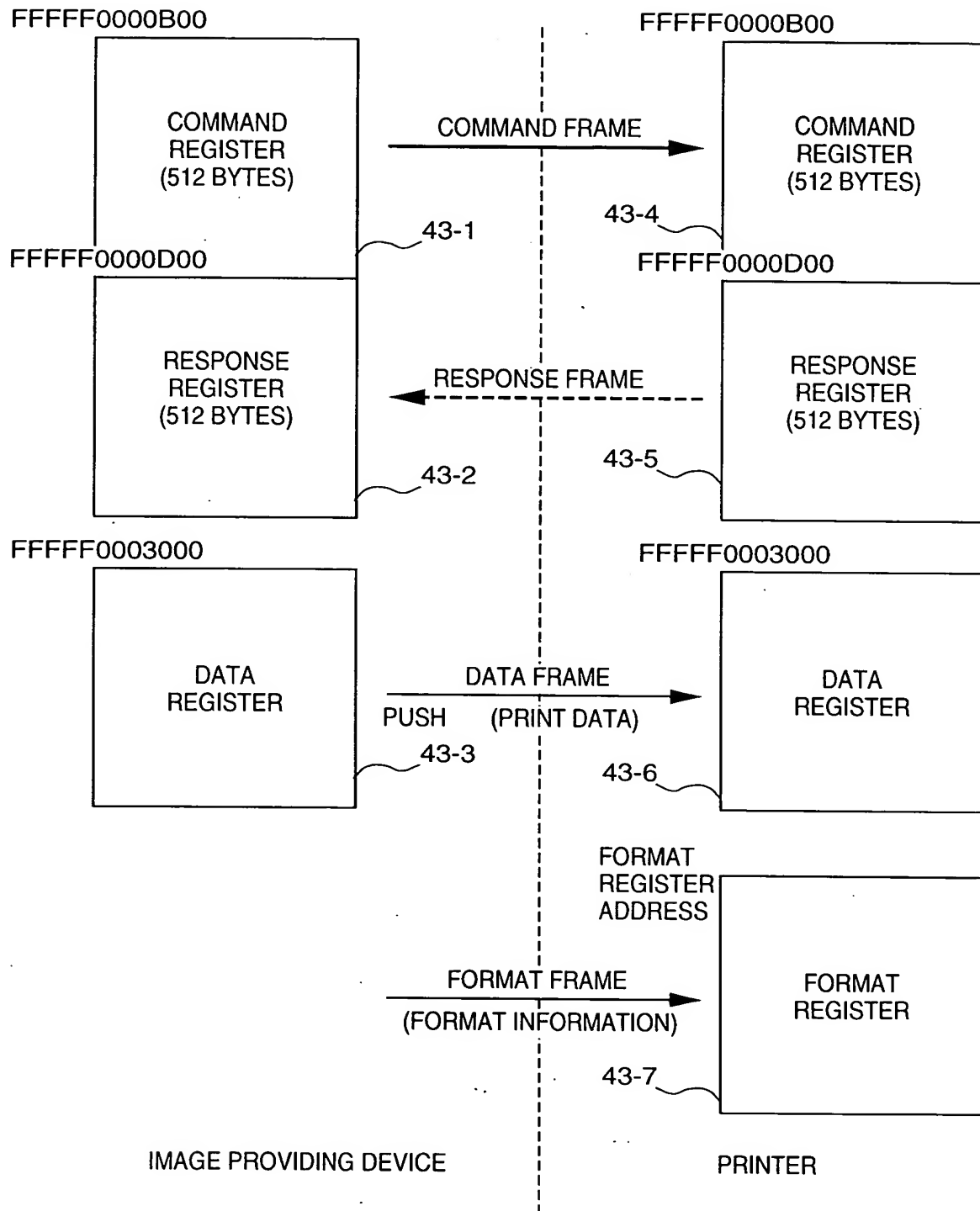
FIG. 34

FIG. 35

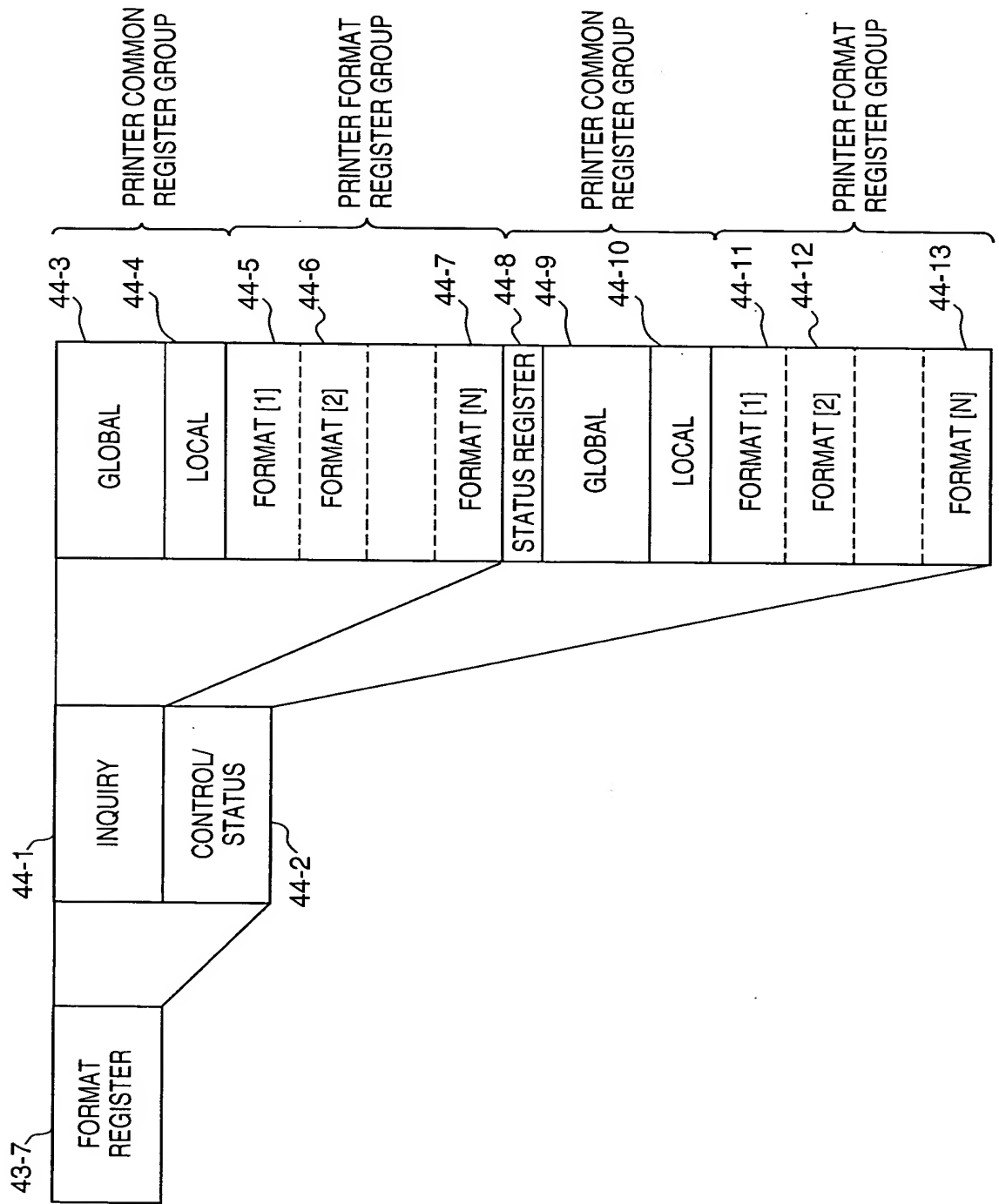


FIG. 36

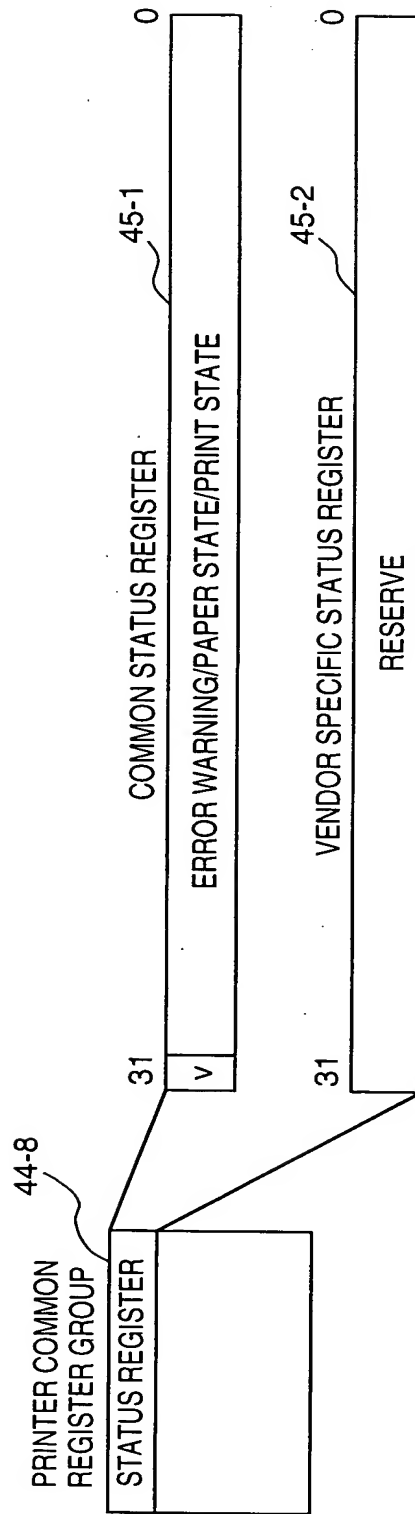


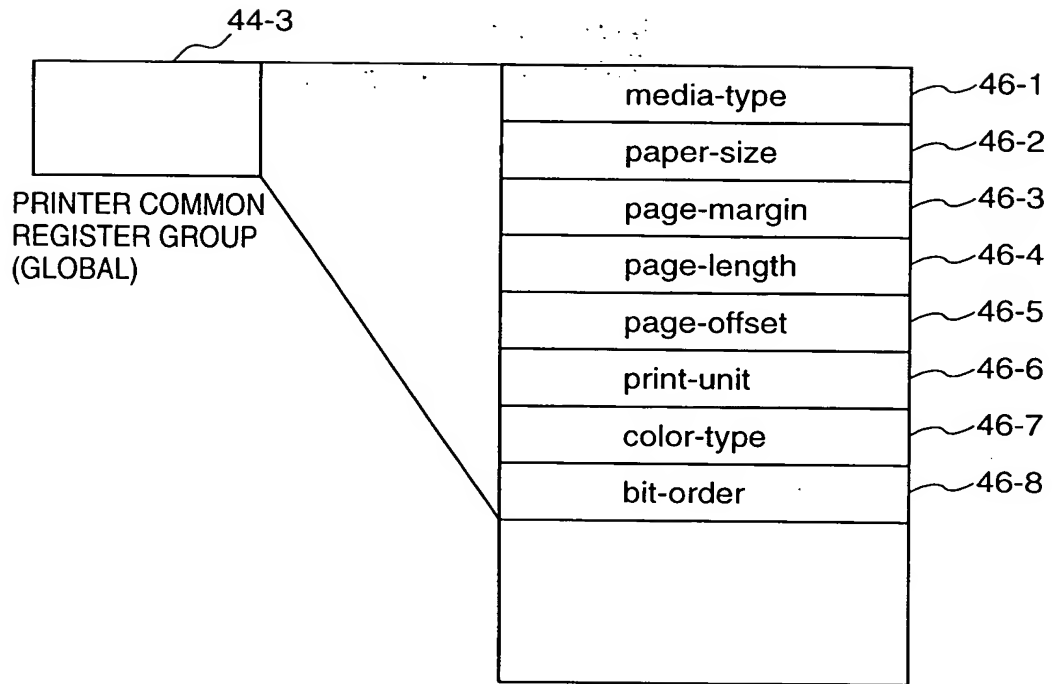
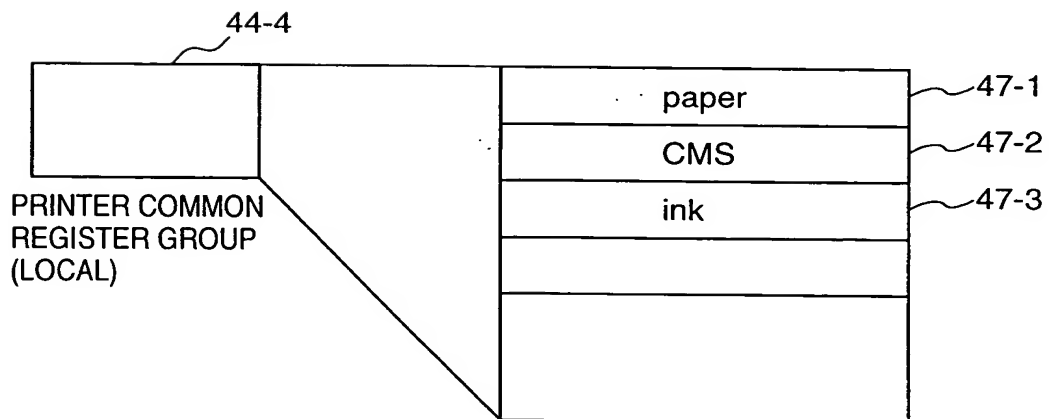
FIG. 37**FIG. 38**

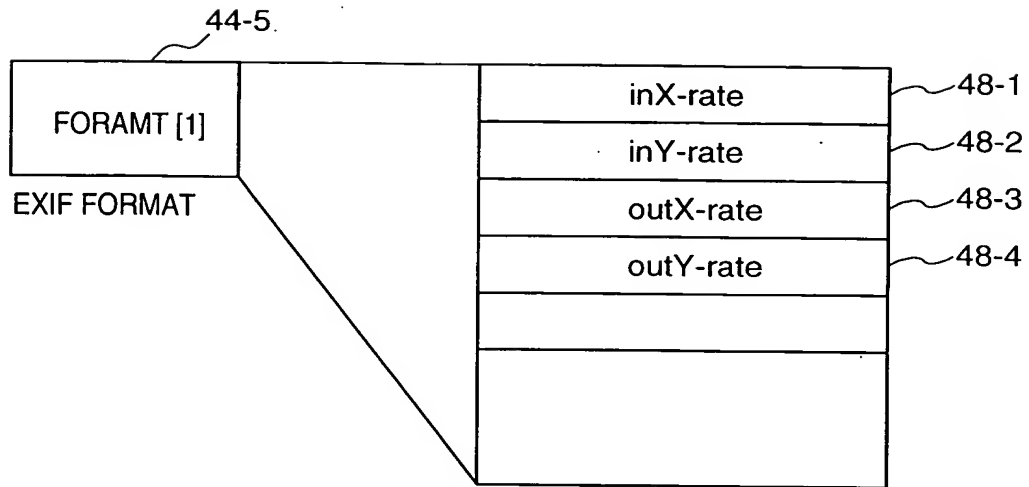
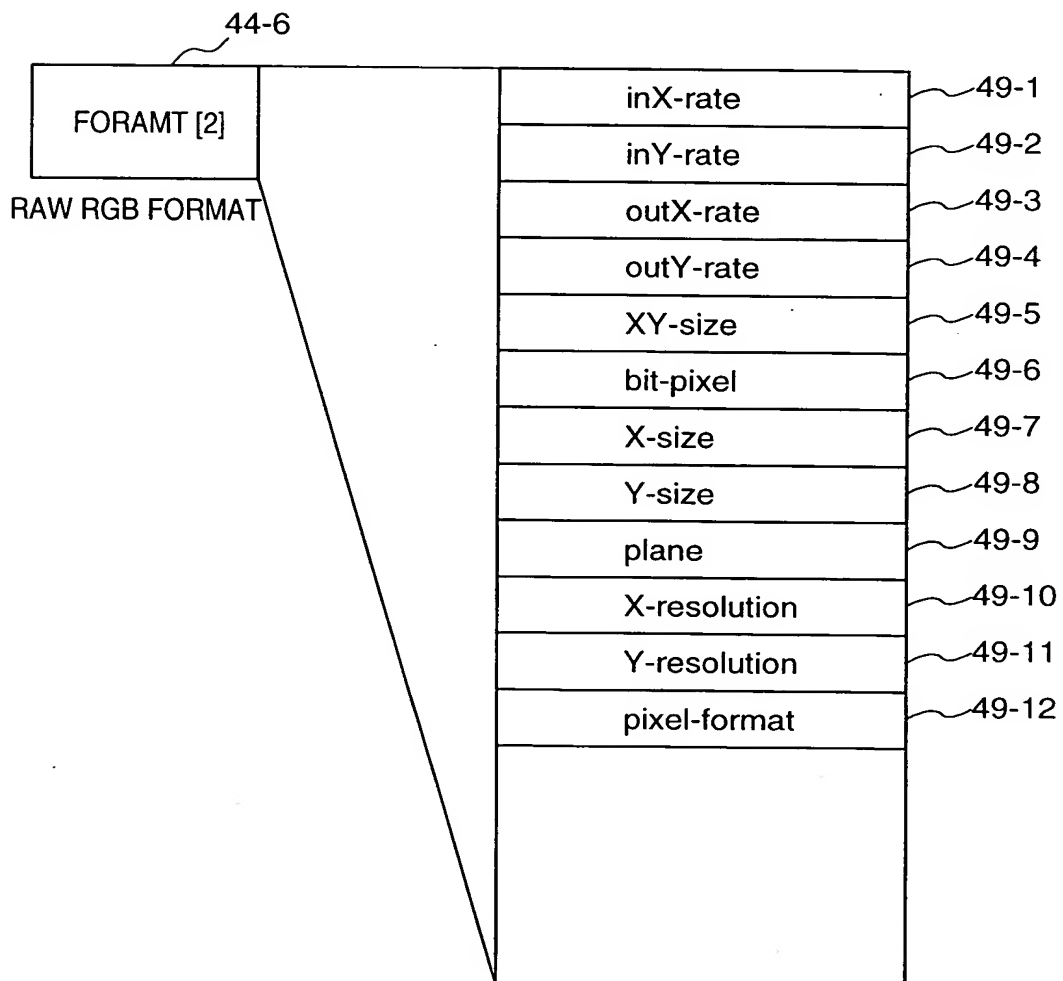
FIG. 39**FIG. 40**

FIG. 41

COMMAND CLASSIFICATION	COMMAND	RESPONSE	
STATUS	GetStatus	GetStatusResponse	50-1
CONTROL	PrintReset	Print ResetResponse	50-2
	PrintStart	PrintStartResponse	50-3
	PrintStop	PrintStopResponse	50-4
	InsertPaper	InsertPaperResponse	50-5
	EjectPaper	EjectPaperResponse	50-6
	CopyStart	CopyStartResponse	50-7
	CopyEnd	CopyEndResponse	50-8
			50-9
BLOCK / BUFFER	BlockSize	BlockSizeResponse	50-10
	BlockAddress	BlockAddressResponse	50-11
	FreeBlock	FreeBlockResponse	50-12
	WriteBlocks	WriteBlocksResponse	50-13
	BufferConfig	BufferConfigResponse	50-14
	SetBuffer	SetBufferResponse	50-15
CHANNEL	OpenChannel	OpenChannelResponse	50-16
	CloseChannel	CloseChannelResponse	50-17
TRANSFER	TransferMethod	TransferMethodResponse	50-18
FORMAT	SetFormat	SetFormatResponse	50-19
LOG-IN	Login	LoginResponse	50-20
	Logout	LogoutResponse	50-21
	Reconnect	ReconnectResponse	50-22
DATA	WriteBlock		50-23
	WriteBuffer		50-24
	PullBuffer		

FIG. 42

EXIF(TIFF, JPEG)	EXIF NON-COMPRESSED AND COMPRESSED DATA
TIFF/EP	TIFF EXTENDED VERSION
RGB	RGB RAW IMAGE
YUV	YUV RAW IMAGE
YCrCb	YCrCb RAW IMAGE
CMYK	CMYK RAW IMAGE
Vendor Specific	VENDOR DEFINITION

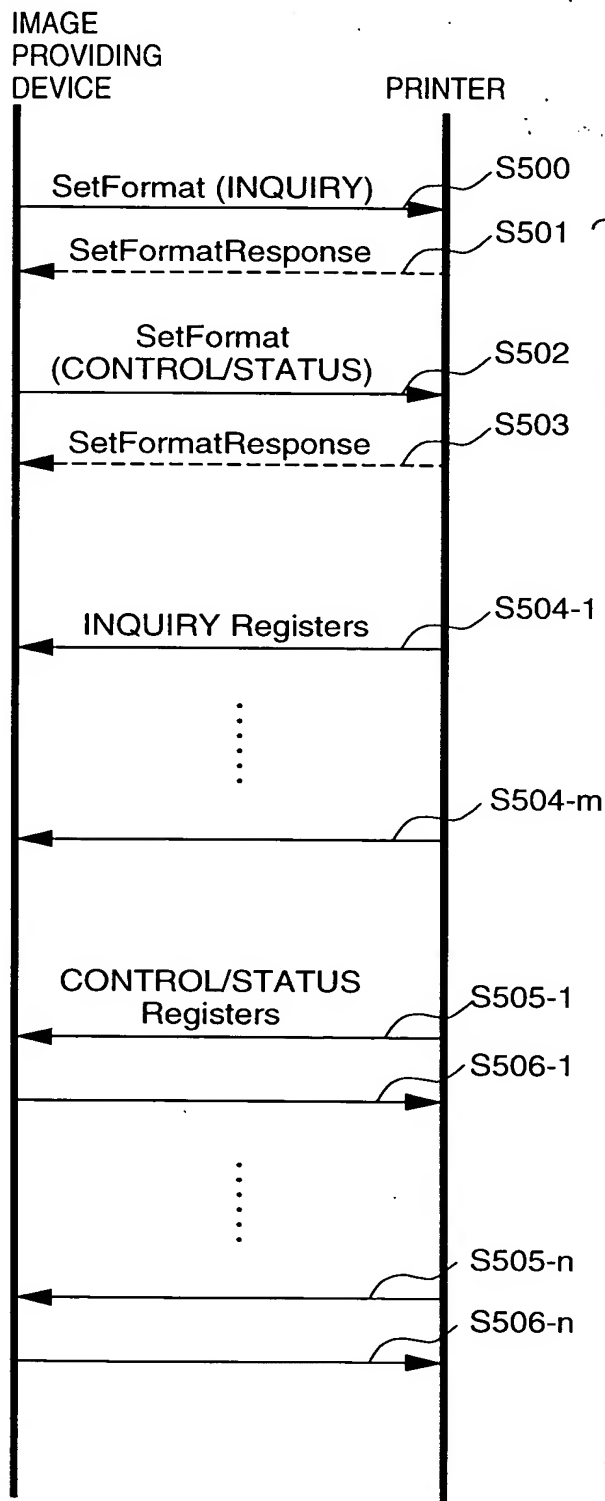
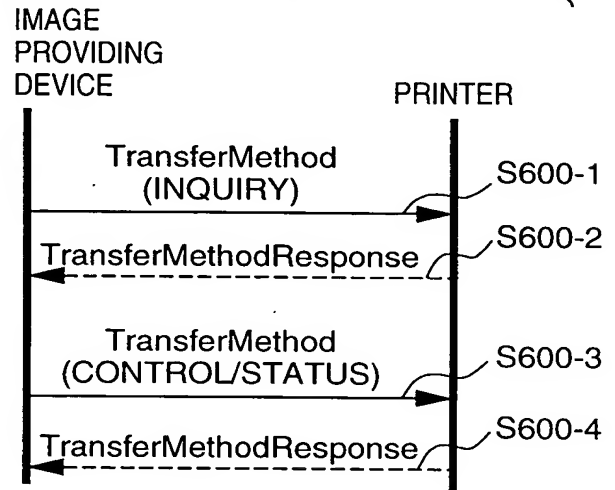
FIG. 43**FIG. 44**

FIG. 45

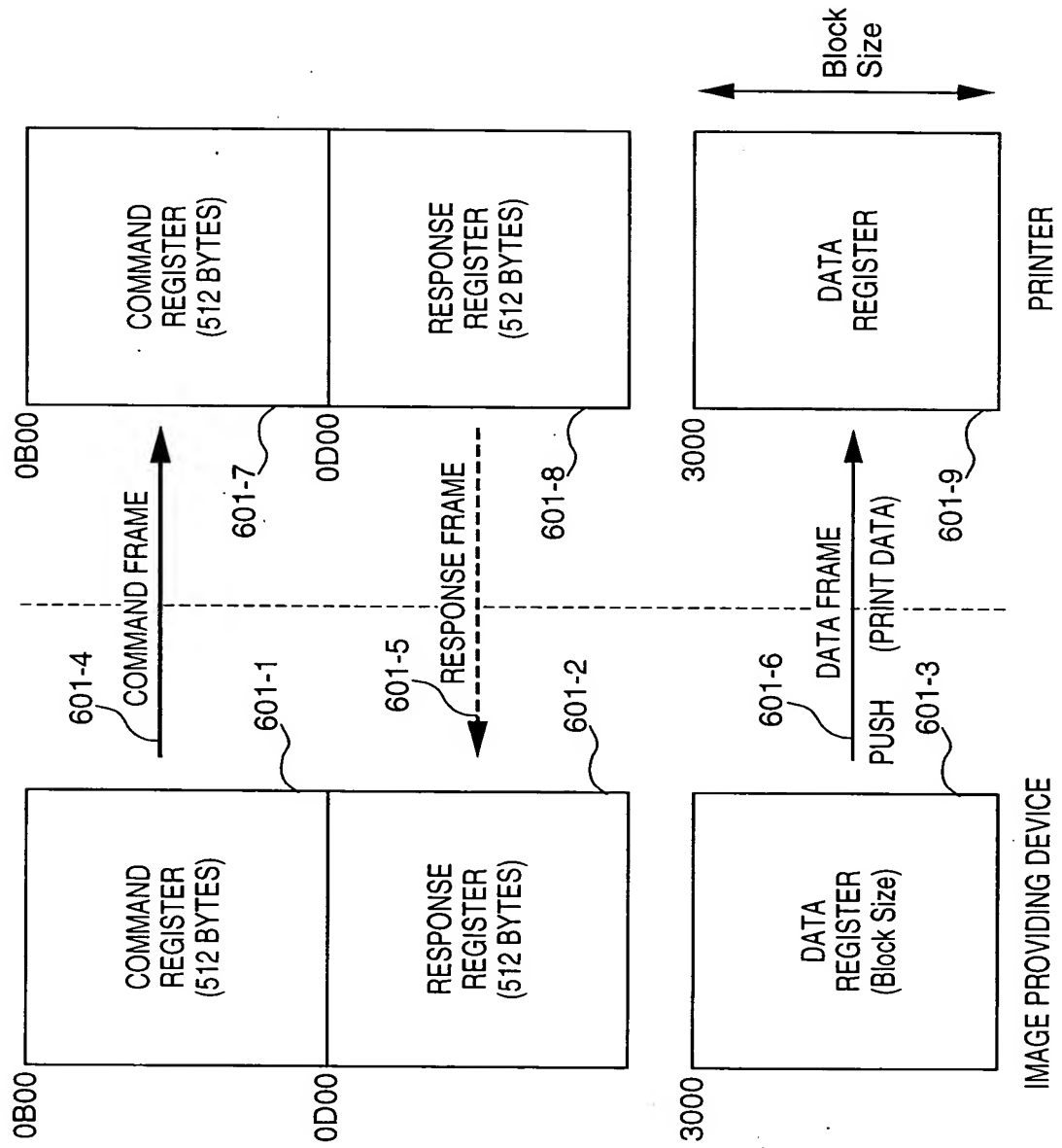


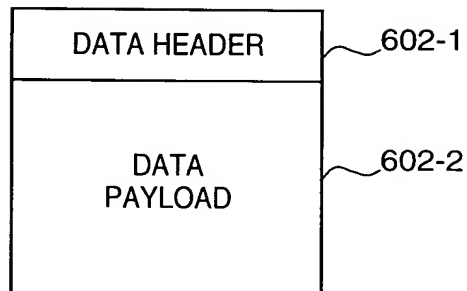
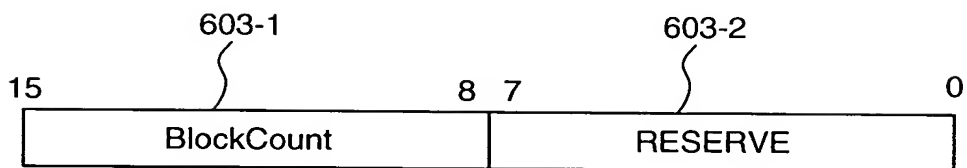
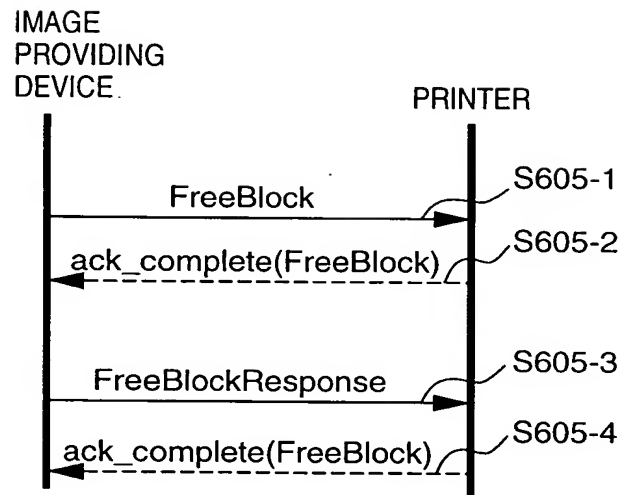
FIG. 46**FIG. 47**

FIG. 49

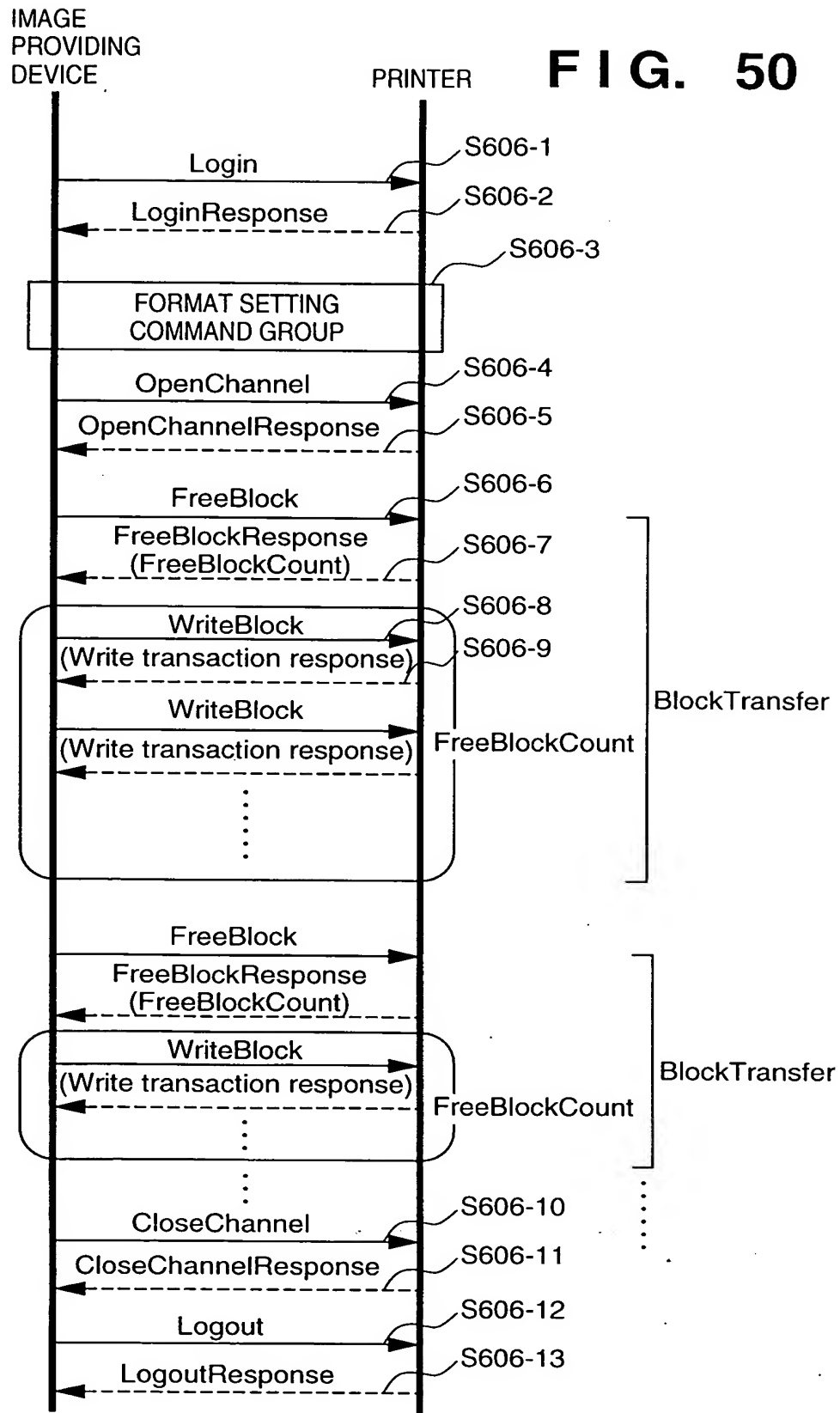


FIG. 51

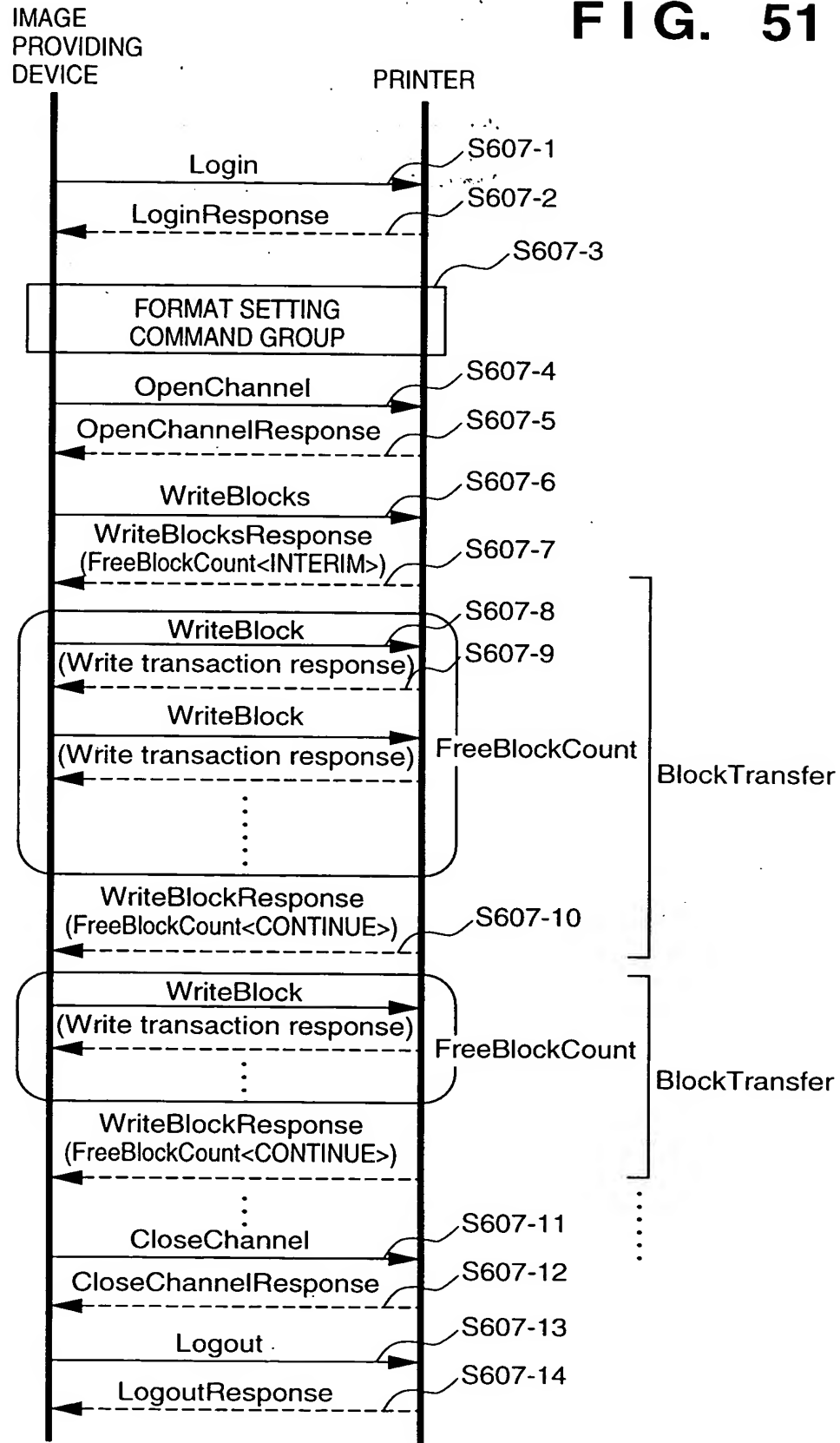


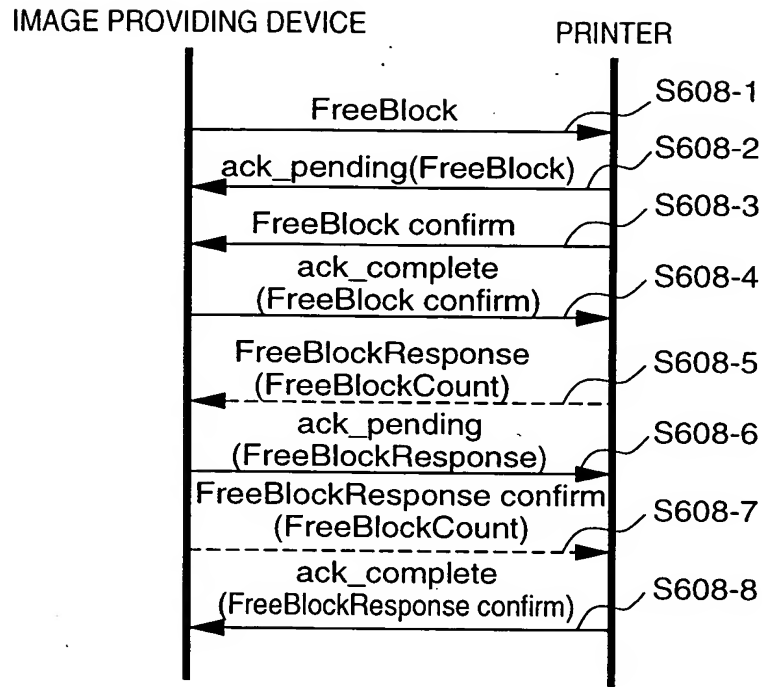
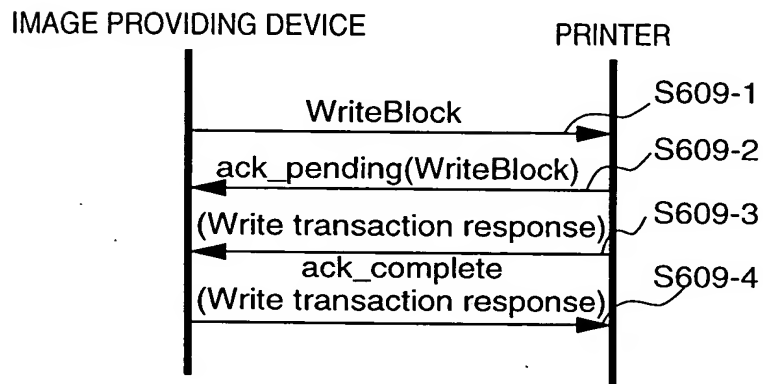
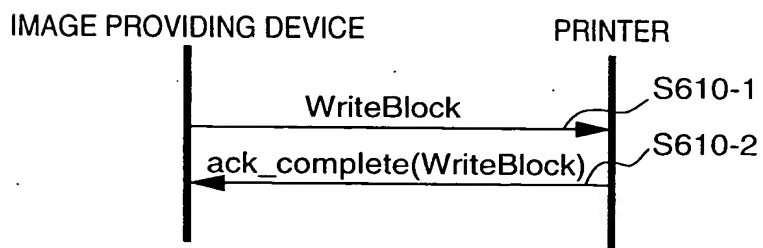
FIG. 52**FIG. 53****FIG. 54**

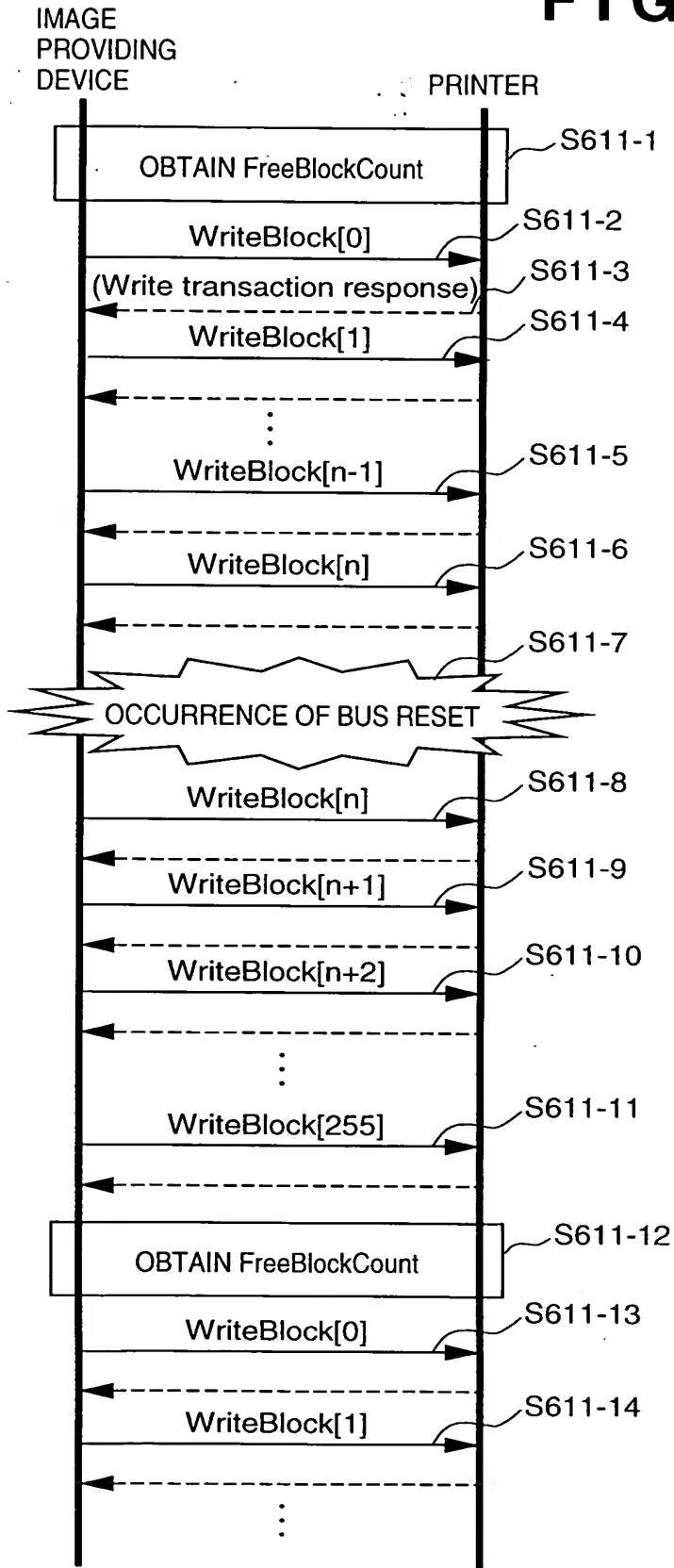
FIG. 55

FIG. 56

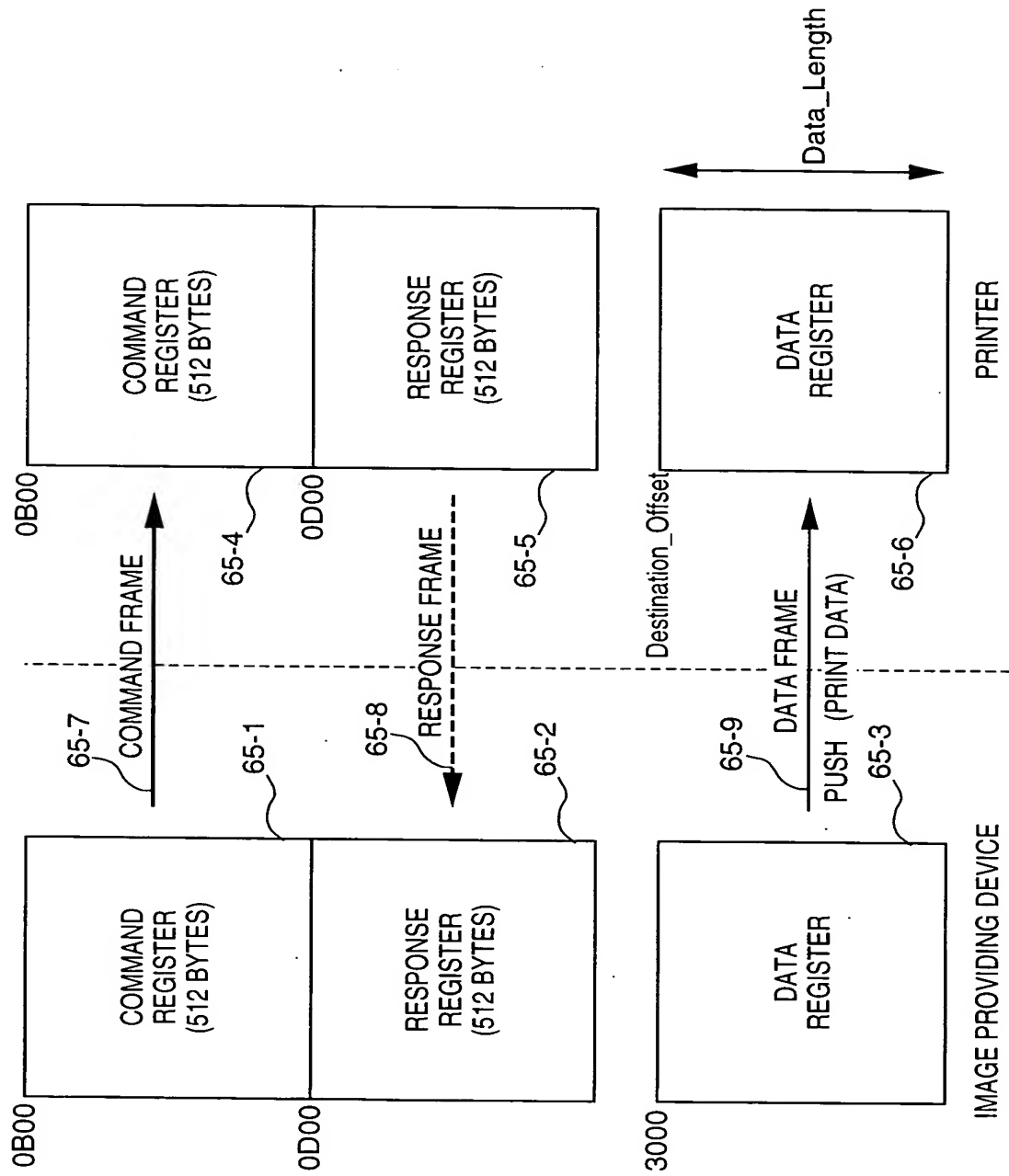


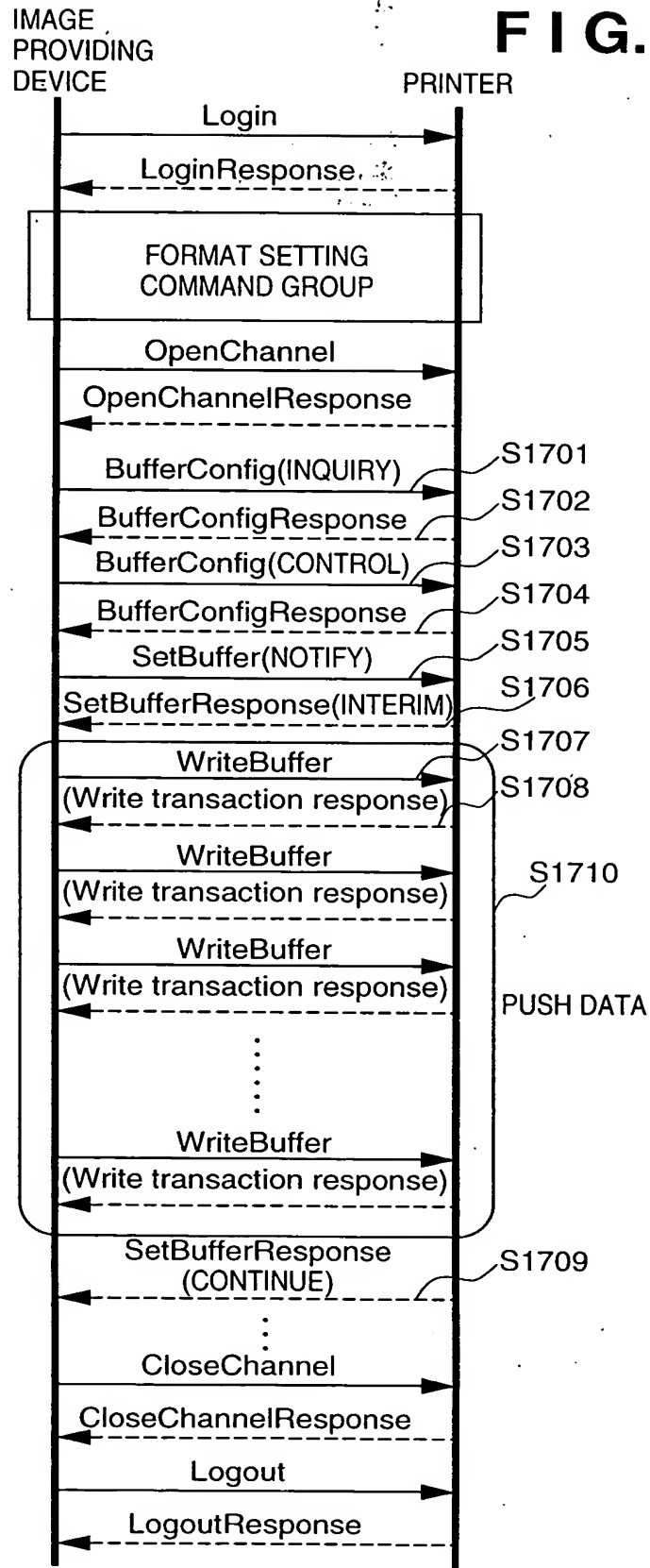
FIG. 57

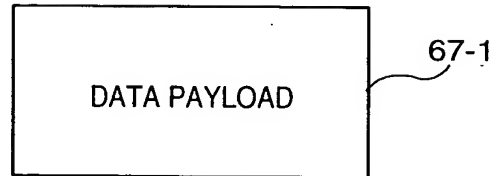
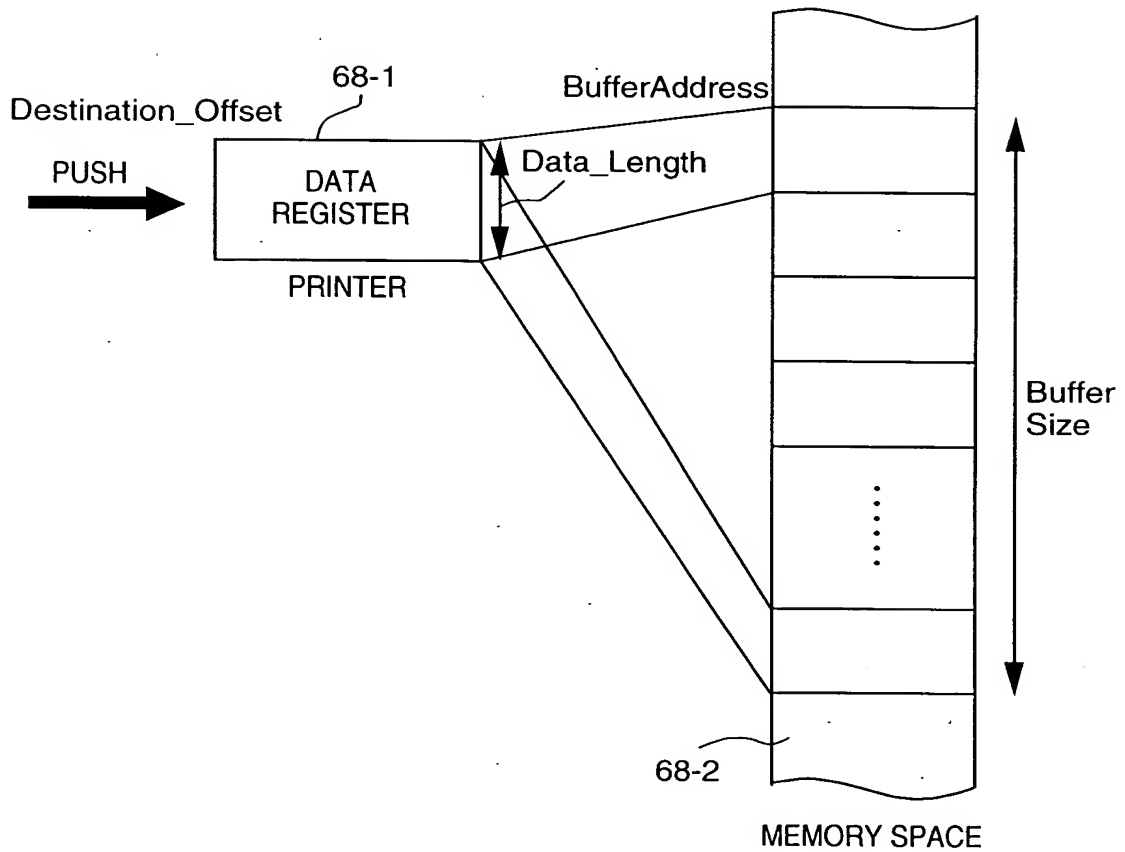
FIG. 58**FIG. 59**

FIG. 60

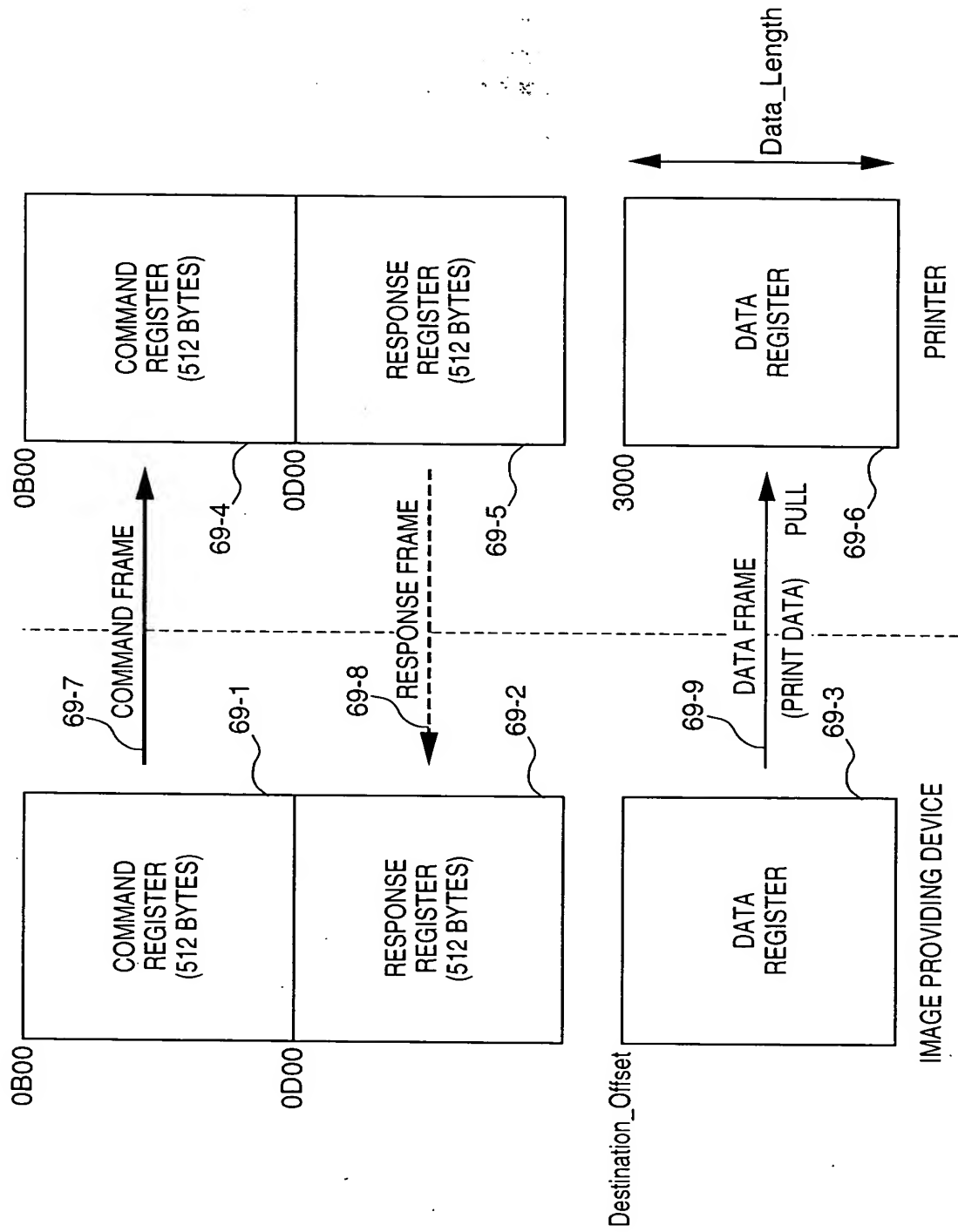


FIG. 61

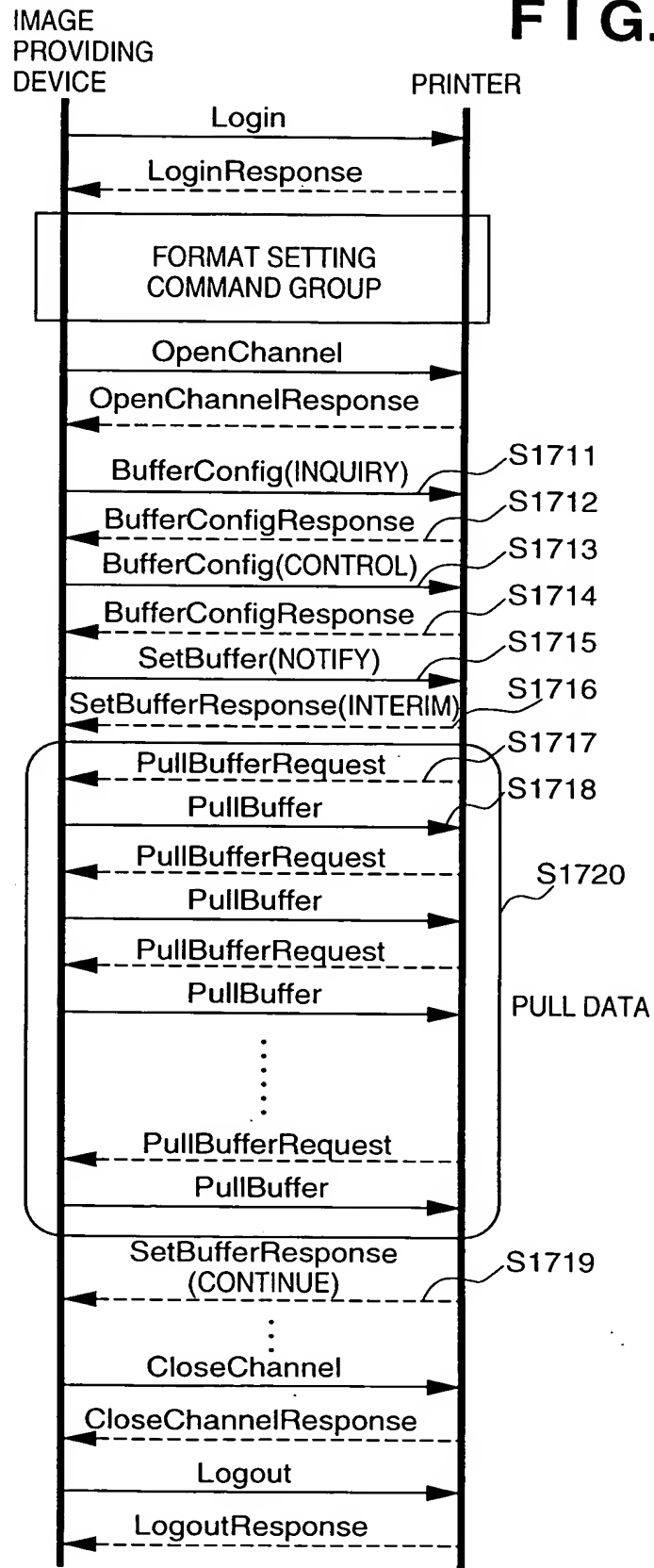


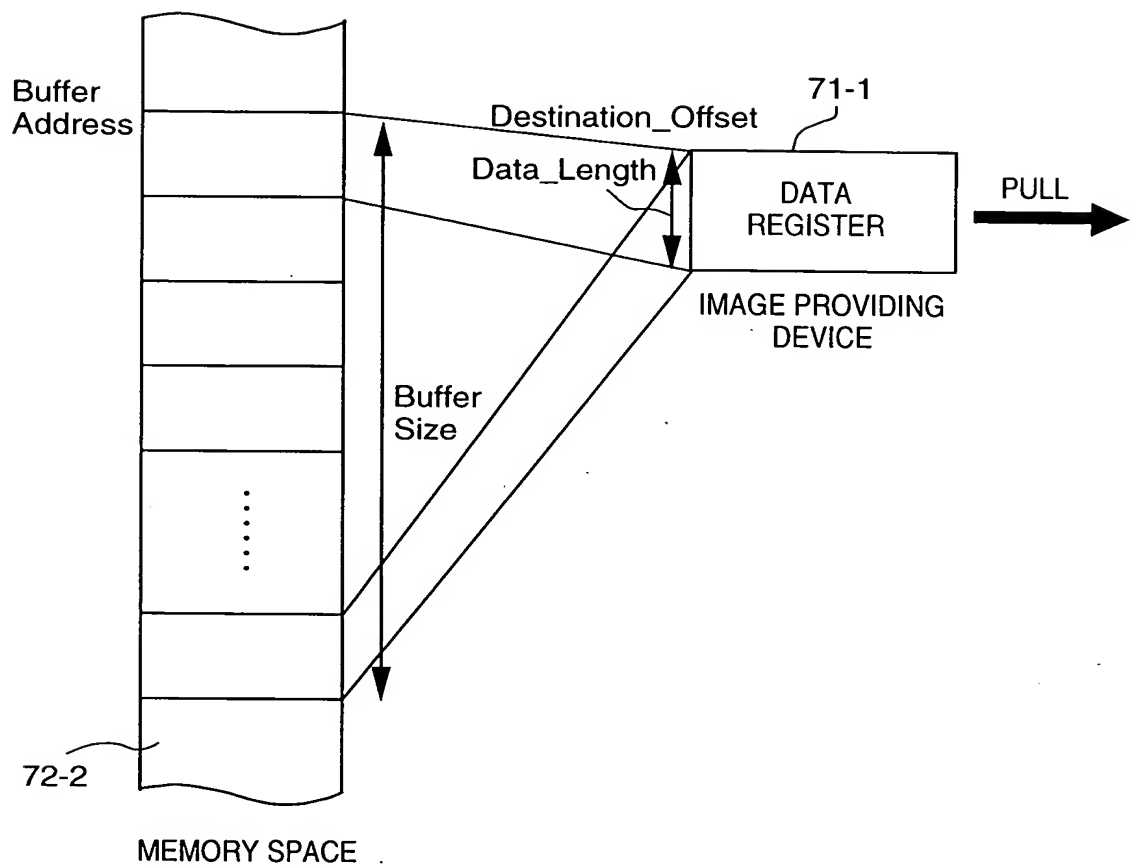
FIG. 62

FIG. 63

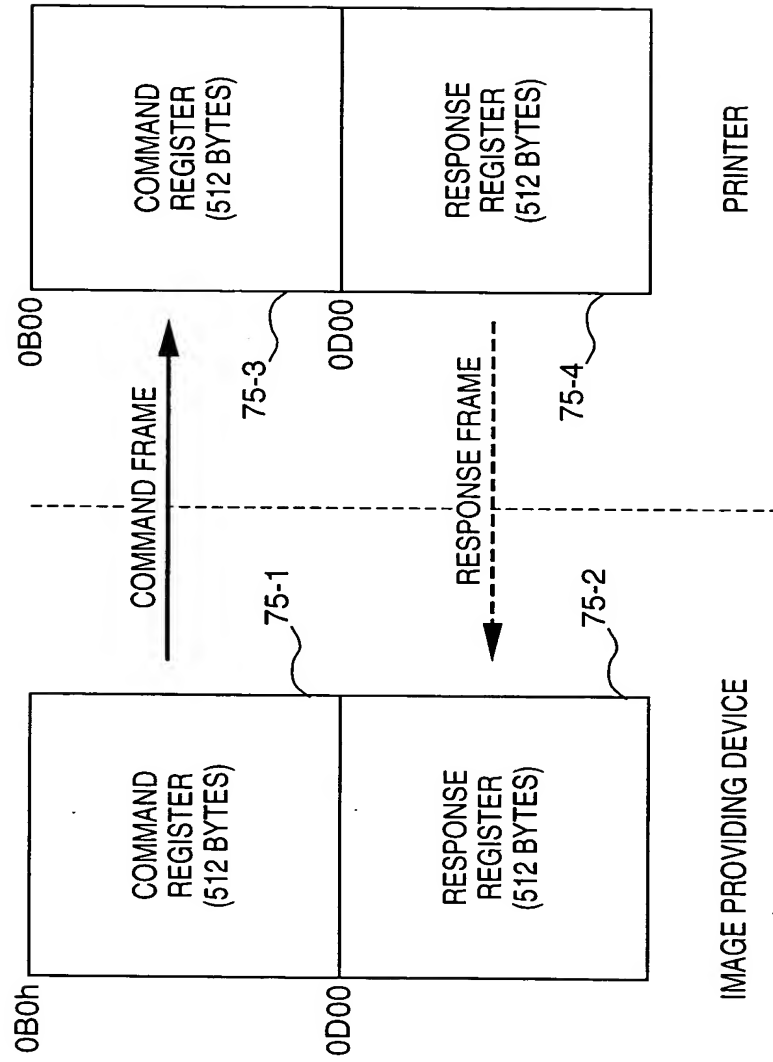


FIG. 64

